TRICOFLEX

Fluid solutions

Industrial Catalogue 2018

afaq ISO 9001 Qualité AFNOR CERTIFICATION Version 2015

Who are we ?

European leader

With a strong experience that dates back more than 60 years, TRICOFLEX TRICOFLEX is among Europe's top leaders in the production of flexible hoses. It is in the Champagne region of France, in Vitry-le-Francois, that TRICOFLEX designs and produces the hoses for today and tomorrow, in a modern factory with a capacity of more than 100 000 km per year. TRICOFLEX today has 200 people that are very passionate about our work, and always at the service of our customers.

TRICOFLEX is a part of the EXEL INDUSTRIES group.

Quality

Quality is part of our DNA at TRICOFLEX, be it the quality of our products or the quality of our service. With an ISO 9001 certification since 1999, TRICOFLEX seeks to continuously perfect our processes in order to answer the needs of a variety of markets.

From the selection of materials to delivery, passing through formulations in the compounding unit and production itself, the company as a whole is striving to achieve the highest standards of customer satisfaction.

Modern production

Each year, we produce more than twice the circumference of the Earth from our 14 production lines. Added to this impressive production capacity, is the expertise that demonstrates an advanced technology:

- Formulation of PVC compounds with exclusive performances, such as anti-static, cold flexibility, oil and grease resistance, high thermal resistance, chemical resistance.
- Multi-layer co-extrusion
- High resilience reinforcements for minimum deformation under pressure

The production site of Vitry-le-François in Champagne-Ardenne.

Large and performing range

More than 60 hose types and 1000 items are offered as standard and available from stock. Knitted hoses, braided hoses, spiral hoses and non-reinforced hoses: TRICOFLEX offers not just the major classics, but above all we offer the exclusive specialty hoses:

- **TRICOFLEX and TRICOFLEX PERFORMANCE**
  Highly flexible water supply hoses
- **SUPER NOBELAIR SOFT and AIRSOFT PERFORMANCE**
  Extra soft and flexible hoses for all compressed air applications
- **TRICOCLAIR**
  Multipurpose hoses according to the latest European regulations
- **TECHNOBEL**
  Multi-layer hoses for transfer of chemicals
- **THERMOCLEAN**
  Hot water hoses for industrial cleaning and food processing up to 100°C
- **PROFILINE AQUA PLUS**
  Potable water hoses according to KTW and DVGW-W270
- **SPIRABEL**
  High flow suction and delivery spiral hoses

Desire to innovate

We consider it our duty to keep our customer relations our top priority, and to further develop new hose solutions to offer to our customers. We constantly search for new materials, we conceive new hose structures, and we invest in new and better performing machinery.

We aim to strengthen the partnership with our customers by always offering advanced technology and excellent service - this is our philosophy.

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Legend

mm	Inner diameter (mm)
mm	Outer diameter (mm)
mm	Wall thickness (mm)
mm	Spiral thickness (mm)
	Weight (g/m)
(EU)10/2011	Food quality Complies with (EU)10/2011
	Water flow rate (L/mn)
	Anti-static
	Can be Earthed
bar	Maximum working pressure (WP) at 23°C (bar)
	Burst pressure (BP) at 23°C (bar)
	Maximum vacuum at 23°C (mbar)
mm	Bending diameter (mm)
mm	Bending radius (mm)
daN	Resistance to traction (daN)
max	Maximum work temperature (°C)
PHTHALATE FREE PHTHALATES < 0,1 %	Phthalates < 0,1%
	Knitting system Anti-torsion hose

Important

1. **The minimum order is 150 € H.T.**
   Under this amount, € 15 administration fee will be charged

2. **If the length of the controlled crowns is not specified, the shortest length will be delivered by default**

Summary

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Classification of tubes in alphabetical order	page		page
Airsoft + Assemblies	26-27	Spirabel S.N.T.-A	81
Airtop	37	Spirabel Vendanges S.F.	87
Cristal	24	Spire Acier	88
Gaine GA1	92	Super Nobelair	31
Gaine GA2	93	Super Nobelair Soft	30
Gaine GA3	94	Super Thermoclean 40	57
Gaine Nb Duc PUR 700 *Polyurethane*	98	Super Tress-Nobel 80 bar	43
Gaine Nb Duc PUR 1500 *Polyurethane*	99	Super Tricoflat	70-71
Gaine Nb Tape PUR 400 *Polyurethane*	96	T 1947 *SP & SUPER SP hose*	74
Gaine Nb Tape PUR 600 *Polyurethane*	97	T 694 *R.I.A. hose*	75
Gaine Spirabel PU A1 *Polyurethane*	95	TCF	21
GPL ISO 3821 *Rubber (NBR)*	39	Technobel	48
Irriflex	67	Technobel PU *Polyurethane*	47
Nobelair AS	29	Thermoclean 100 + Assemblies	54-55
Nobelair AS/R	32	Thermoclean AL 20	56
Nobelair AS/R EN ISO 5359	33	Tress-Nobel 20 bar	42
Nobelair PU	28	Tress-Nobel 40 bar	42
Primabel	68	Tricoclair AL	18-19
Profiline-Aqua Plus *Polyethylene*	53	Tricoclair Industrie	20
Propa-Tress	38	Tricoflat	70-71
Rubvyl	66	Tricoflex	63
Soudage ISO 3821 *Rubber (SBR)*	40	Tricoflex Performance	62
Spirabel Balnéo/Piscine	89	Tricoflex R	64
Spirabel G.M.D.S.	83	Tricoflex Yachting	65
Spirabel L.D.	78	Tricofuel	46
Spirabel M.D.S.E.	85	Tubclair AL	22-23
Spirabel M.D.S.F. AL	84	Tube PA calibré *Polyamid*	34-35
Spirabel M.D.S.O.	86	Tube PU calibré *Polyurethane*	36
Spirabel PUA2 *Polyurethane*	90	Tube PTFE *Teflon*	49
Spirabel S.I.	79	Tublait	59
Spirabel S.I.S.E.	82	Vitryl *Silicon*	52
Spirabel S.N.T.-S	80	Washing guns	58

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Tube selection by application

		Application	Key features	Name of hoses	Hose range	MWP/BP* class	Nominal bore available	Col. of C.R.C.**	Page
Transfer of pressurized fluids	Reinforced hoses and semi-rigid tubes	Multipurpose hoses		TRICOCLAIR AL		20/60	4 → 50	A	18-19
				TRICOCLAIR INDUSTRIE		20/60	6 → 25	A	20
				TCF		13/40	6,3 → 50	A	21
		Compressed air	Pneumatic tools	AIRSOFT PERFORMANCE	PERFORMANCE	16/64	6,3 → 25	B	26-27
			Pneumatic tools	NOBELAIR PU		20/60	6 → 12,5	C	28
			Heavy duty: garages, ...	NOBELAIR AS	FULLSOFT	16/64	7 → 12	A/B	29
			Pneumatic tools	SUPER NOBELAIR SOFT		15/60	6,3 → 25	A	30
			Respirators	NOBELAIR AS/R		15/60	6 → 19	A/B	31
			Pneumatic tools	SUPER NOBELAIR	Classic	20/60	6,3 → 25	A	32
			Building trade (compressors)	AIRTOP		15/45	10 → 25		37
		Medical gas	Comply with EN ISO 5359 standard	NOBELAIR AS/R EN ISO 5359		15/60	6,3	A	33
		Pneumatics	High resistance	TUBE PA CALIBRE		10/41 to 33/133	2 → 13	F	34-35
			High flexibility	TUBE PU CALIBRE		10/30	2,5 → 8	C	36
		Gas and Welding	Welding, heating	PROPA-TRESS		20/80	6,3 → 9	A/B	38
			LPG, gas welding	GPL ISO 3821 (EN 559)		20/60	8 → 10		39
			Gas welding oxy-acetylene	SOUDAGE ISO 3821 (EN 559)		20/60	6 → 10		40
		Agricultural spraying	Class 20 bar	TRESS-NOBEL 20 BAR		20/60	8 → 25	A	42
			Class 40 bar	TRESS-NOBEL 40 BAR		40/120	6,3 → 25	A	42
			Class 80 bar	SUPER TRESS-NOBEL 80 BAR		80/240	8 → 19	A	43
		Fuels & oils	Clear	TRICOFUEL	Classic	13/40	6,3 → 30	B	46
			Very flexible	TECHNOBEL PU	FULLSOFT	20/60	6 → 32	AC/AB	47
			Available in large sizes	TECHNOBEL	Classic	20/60	6 → 50	D/A	48
		Chemical products	Vast chemical compatibility of up to 250°C	TUBE PTFE		20/60	2 → 10	H	49
		Food industry	No transfer of taste	PROFILINE AQUA PLUS	KTW-W270	20/60	10 → 25	E/I	53
		Food cleaning	Food cleaning up to 100°C	THERMOCLEAN 100	THERMOSOFT	30/90	13 → 25	B	54-55
			Up to 20 bar under 70°C	THERMOCLEAN AL 20		33/100	12 → 19	B	56
			Up to 40 bar under 70°C	SUPER THERMOCLEAN 40		40/120	12	B	57
		Water hoses	Water supply and delivery, irrigation	TRICOFLEX PERFORMANCE	PERFORMANCE	8/20	12,5 → 25	A	62
			Water supply and delivery, irrigation	TRICOFLEX	Classic	8/20	12,5 → 50	A	63
			Gantry installations in green houses	TRICOFLEX R		8/24	19 → 25	A	64
			Water supply and delivery, irrigation	TRICOFLEX YACHTING		9/23	12,5 → 19	A	65
			Building trade	RUBVYL		8/20	13 → 25	A	66
			Water supply and delivery, irrigation	IRRIFLEX	Classic	8/20	12,5 → 25	A	67
			Professionnal watering	PRIMABEL		8/20	12,5 → 30	A	68
			Agriculture / Building trade	TRICOFLAT		7/21	25 → 200	A	70-71
			Agriculture / Building trade	SUPER TRICOFLAT		12/36	45 → 150	A	70-71
		Fire fighting hoses	Semi-rigid hoses for fire-fighting trucks	T1947		15/40	25,5		74
			Fire fighting reels	T694		7/25	19 → 33		75

*WP = Working Pressure - MBP = Guaranteed minimum burst pressure (bar)

**C.R.C.: chemical resistance chart pages 102 to 105

Tube selection by application

		Application	Specialities/Advantages	Name of hoses	Hose range	MWP/BP* class	Nominal bore available	Col. of C.R.C.**	Page
Transfer of pressureless fluids	Unreinforced flexible tubes	**Multipurpose**	Food quality	**TUBCLAIR AL**		--	2 → 60	A	22-23
				CRISTAL		--	4 → 38	A	24
		Food industry	Use up to 200°C	**VITRYL** (Silicone)		--	3 → 20	G	52
			Milk circulation	**TUBLAIT**		--	14 → 16	A	59
High capacity suction/discharge	Hoses reinforced with a spiral groove	**Multipurpose**	Small pumps	**SPIRABEL L.D.**		6/18	20 → 102	A	78
			Pumps, irrigation	**SPIRABEL S.I.**		6/18	20 → 102	A	79
			Industrial standard	**SPIRABEL S.N.T-S**		7/21	20 → 151	A	80
			Transfer of grains and low abrasive powders	**SPIRABEL S.N.T-A**		7/22	40 → 60	A	81
			Multipurpose	**SPIRABEL G.M.D.S.**		5/15	25 → 152	A	83
			Refrigerated food liquids	**SPIRABEL M.D.S.F. AL**		5/15	40 → 151	A	84
			Severe use at low temperature	**SPIRABEL M.D.S.E**		5/15	25 → 151	A	85
			Severe use for fuels and oils	**SPIRABEL M.D.S.O.**		5/15	25 → 152	B	86
			Steel spiral reinforcement	**SPIRE ACIER**		12/36	10 → 150	A	88
		Special duty	Seed drills	**SPIRABEL S.I.S.E.**		4/12	20 → 60	A	82
			Wine making and food liquids	**SPIRABEL VENDANGES S.F.**		7/21	40 → 120	A	87
			Swimming-pools and spas	**SPIRABEL BALNEO/PISCINE**		7/21	32 → 63	A	89
			High abrasive products and hydrocarbons	**SPIRABEL PU A2** (Polyuréthane)		4/12	40 → 100	C	90
Suction/discharge of air, gas, dust and chips	Sheath with thin wall and reinforcement with a spiral groove	**Flexible ductings in PVC**	Air, fumes	**GAINE GA1**			25 → 63	A	92
			Air, fumes, agricultural spraying	**GAINE GA2**			20 → 250	A	93
			Automatic pumps, water delivery	**GAINE GA3**			12 → 40	A	94
		Flexible ductings in PU	Grain and powders	**GAINE SPIRABEL PU A1**			30 → 200	C	95
			Air, gas, dust and chips (steel spiral)	**GAINE Nb TAPE PUR 400**			60 → 300	C	96
			Air, gas, dust and chips (steel spiral)	**GAINE Nb TAPE PUR 600**			40 → 305	C	97
			Sawdust and chips (steel spiral reinforced)	**GAINE Nb DUC PUR 700**			50 → 80	C	98
			Granules, mud, sand, cement, gravel (steel spiral)	**GAINE Nb DUC PUR 1500**			40 → 100	C	99

*WP = Working Pressure - MBP = Guaranteed minimum burst pressure (bar)

**C.R.C.: chemical resistance chart pages 102 to 105

REACH No. 1907/2006

REACH is an EU regulation adopted to better protect human health and environment against the risks related to chemical substances.

Tricoflex, as a producer of soft PVC hoses, needs to comply with this regulation, we thus pay very close attention to its evolution. To guarantee the conformity of our products to this regulation, Tricoflex stays informed of its regular updates of the different lists of substances that are subjected to authorization, restrictions of use and/or declarative obligations required by REACH and works in close collaboration with our raw material suppliers.

These regular updates concern primarily 2 substances lists :

1/ The Candidate List of substances of very high concern for Authorisation (or Candidate list, or SVHC list)
http://echa.europa.eu/web/guest/candidate-list-table

It concerns the substances that are known or potentially carcinogenic (cat. 1A or 1B), mutagenic (cat. 1A or 1B), toxic for reproduction (cat. 1A or 1B), persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), and the substances that arouse an equivalent level of concern having probable serious effects to human health and/or the environment.

These substances are not prohibited to use and can thus still be put on the market. However, they are subject to an obligation for the suppliers to communicate information if the SVHC substance is present at more than 0,1% of the article mass.

2/ The Authorization list (Annex XIV)

http://echa.europa.eu/web/guest/addressing-chemicals-of-concern/authorisation/recommendation-for-inclusion-in-the-authorisation-list/authorisation-list

After a regulatory procedure, the SVHCs of the Candidate List can be included in the Annex XIV to become subjected to authorization. These substances may not be commercialized, nor used after a given date, unless their specific use has been authorized.

This is particularly the case since 2015/02/21 for certain plasticizers in PVC, as stated here below:

- bis(2-ethylhexyl) phthalate (DEHP) - CAS No. 117-81-7

- diisobutyl phthalate (DIBP) – CAS No. 84-69-5

- dibutyl phthalate (DBP) – CAS No. 84-74-2

- benzyl butyl phthalate (BBP) - CAS No. 85-68-7

Consequently, our whole range of products are henceforth guaranteed to be free from these plasticizers, and particularly DEHP-free.

Furthermore, since 2017 for most of our products we guarantee a rate of phtalates of <0.1% which is indicated by the phtalates free logo:

Information on compliance for food contact

TRICOFLEX certifies that the following hoses are designed for contacts with food products that are compatible with the appointed simulants.

1) Thermoplastic hoses : European Regulation (EU) No. 10/2011 and its amendments

	Simulant A Ethanol 10%	B Acetic acid 3%	C Ethanol 20%	D D1 = Ethanol 50% D2 = Vegetable oil
Tricoclair AL	✓	✓	✓	D1
Tricoclair Industrie	✓	✓	✓	
TCF	✓	✓	✓	
Cristal	✓	✓	✓	
Tubclair AL	✓	✓	✓	D1
Tublait	✓	✓	✓	D1
Profiline Aqua Plus	✓	✓	✓	D1 and D2
Thermoclean AL 20	✓	✓	✓	
Super Thermoclean 40	✓	✓	✓	
Thermoclean 100	✓	✓	✓	
Spirabel SI	✓	✓	✓	
Spirabel SNT-S	✓	✓	✓	D1
Spirabel MDSF AL	✓	✓	✓	D1
Spirabel Vendanges SF	✓	✓	✓	D1
Spire Acier	✓	✓	✓	D1
Spirabel SNT-A		Nonfat dried foodstuffs only		
Spirabel PUA1		Nonfat dried foodstuffs only		
Spirabel PUA2		Nonfat dried foodstuffs only		
Gaine Tape PUR 600		Nonfat dried foodstuffs only		

2) Silicon hoses : French order from 25/11/1992

	Simulant A Ethanol 10%	B Acetic acid 3%	C Ethanol 20%	D D1 = Ethanol 50% D2 = Vegetable oil
Vitryl	✓	✓	✓	D1

According to the European Regulation N°1935/2004, those hoses are identified with the glass + fork logo:

For an easier identification, the number of the Regulation is joined to the glass + fork logo, both on the marking of the hose and on the label of the coil:

F. DOOSTERLINCK
CEO

(EU) N° 10/2011

Food compatibility chart of hoses

(EU) N° 10/2011

	Tricoclair AL	Tricoclair industrie	TCF	Cristal	Tubclair AL	Tublait	Profiline Aqua Plus	Thermoclean AL 20	Super Thermoclean 40	Thermoclean 100	Spirabel SI	Spirabel SNT-S	Spirabel MDSF AL	Spirabel Vendanges SF	Spire Acier	Spirabel SNT-A	Spirabel PUA1	Spirabel PUA2	Gaine Tape PUR 600	Vitryl
Non-alcoholic beverages																				
Mineral waters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Juices and Nectars	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Juices, nectars and fruit musts with pulp	✓				✓	✓	✓					✓	✓	✓	✓					✓
Lemonades, sodas	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Syrups	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Vegetable juice	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Coffee	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Tea	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Infusions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Liquid chocolate	✓				✓	✓	✓					✓	✓	✓	✓					✓
Drinks with less than 5% alcohol																				
Ciders	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Musts	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Beers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Bitters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Drinks with 6% to 20% alcohol																				
Wines	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Spirits, liqueurs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Cream liqueurs	✓				✓	✓	✓					✓	✓	✓	✓					✓
Drinks with 20% to 50% alcohol																				
Spirits, liquors	✓				✓	✓	✓					✓	✓	✓	✓					✓
Drinks with more than 50% alcohol																				
Spirits, liquors							✓													
Bakery products																				
Cereals, starches and yeast															✓	✓	✓	✓		
Flour and semolina															✓	✓	✓	✓		
Dried or fresh fat-containing substances							✓													
Dried or fresh nonfat substances															✓	✓	✓	✓		
Cocoa powder															✓	✓	✓	✓		
Cocoa paste							✓													
Made products																				
Chocolate and chocolate-coated products							✓													
With fatty substances							✓													
As a non-greasy dough	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓
Sugar and sugar products in solid form															✓	✓	✓	✓		
Molasses, sugar syrups, honey	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓
Fruits and vegetables																				
Dried or dehydrated															✓	✓	✓	✓		
Jams, compotes, puree	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓
Preparations in water or in juice	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓
Preparations in oil							✓													
Preparations in alcohol	✓				✓	✓	✓					✓	✓	✓	✓					✓

Food compatibility chart of hoses

(EU) N° 10/2011	Tricoclair AL	Tricoclair industrie	TCF	Cristal	Tubclair AL	Tublait	Profiline Aqua Plus	Thermoclean AL 20	Super Thermoclean 40	Thermoclean 100	Spirabel SI	Spirabel SNT-S	Spirabel MDSF AL	Spirabel Vendanges SF	Spire Acier	Spirabel SNT-A	Spirabel PUA1	Spirabel PUA2	Gaine Tape PUR 600	Vitryl
Walnuts, hazelnuts, peanuts (etc...)																				
Dried, flaked or powdered															✓	✓	✓	✓		
Peeled and roasted															✓	✓	✓	✓		
As a paste or cream							✓													
Liquids or thick soups																				
Containing fatty products							✓													
Fat products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Dehydrated soup powder																				
Containing fatty products							✓													
Fat free products															✓	✓	✓	✓		
Fats and oils																				
Plants and animals in all their forms							✓													
Butters and margarines							✓													
Meat and fish																				
Fresh, chilled, salted, smoked							✓													
Canned fish in water	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Canned fish in oil							✓													
Meats							✓													
Meat paste form or cream							✓													
Eggs																				
Powder, dried or frozen															✓	✓	✓	✓		
Liquid and cooked	✓				✓	✓	✓					✓	✓	✓	✓					✓
Dairy																				
Milk and milk drinks	✓				✓	✓	✓					✓	✓	✓	✓					✓
Dried milk powder															✓	✓	✓	✓		✓
Fermented milk and yoghurt	✓				✓	✓	✓					✓	✓	✓	✓					✓
Cream	✓				✓	✓	✓					✓	✓	✓	✓					✓
Mozzarella	✓				✓	✓	✓					✓	✓	✓	✓					✓
Ice	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Condiments																				
Salt															✓	✓	✓	✓		
Vinegar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Fatty sauces, mayonnaise							✓													
Non-fat sauces	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Mustard							✓													
Aromatic plants (Lime, mint ...)															✓	✓	✓	✓		
Spices and aromates (cinnamon, pepper...)															✓	✓	✓	✓		
Spices and aromates in oily environments (pesto...)							✓													

AUTO-REEL, MINI-REEL, WATER-REEL, VITON SPRAYERS	REELS, SPRAYERS
TRICOCLAIR AL, TRICOCLAIR INDUSTRIE, TCF, TUBCLAIR, CRISTAL	MULTIPURPOSE HOSES
AIRSOFT & FLEXIBLES, NOBELAIR PU, NOBELAIR AS, SUPER NOBELAIR SOFT, SUPER NOBELAIR, NOBELAIR AS-R, NOBELAIR AS-R ISO 5359, TUBES PA, TUBES PU, AIRTOP, PROPATRESS, GPL, SOUDAGE	COMPRESSED AIR, MEDICAL GAS, GAS & WELDING
TRESS-NOBEL 20 BAR, TRESS-NOBEL 40 BAR, SUPER TRESS-NOBEL 80 BAR	AGRICULTURAL SPRAYING
TRICOFUEL, TECHNOBEL PU, TECHNOBEL, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS
VITRYL, TUBLAIT, PROFILINE AQUA PLUS, WASHING GUNS, THERMOCLEAN 100 & FLEXIBLES, THERMOCLEAN AL 20, SUPER THERMOCLEAN 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING
TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

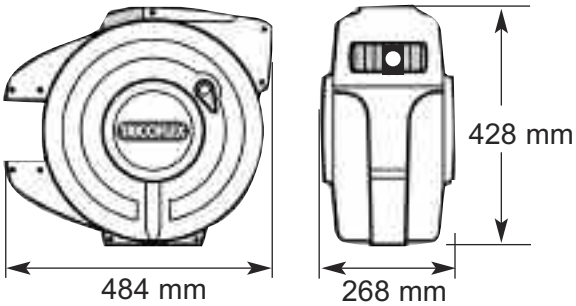
AutoReel Pro

Multipurpose hose reel

air, water (Max 40°C), herbicides, pesticides...

With security locked system

With brass fittings BSP 1/4” B.S.P.T.

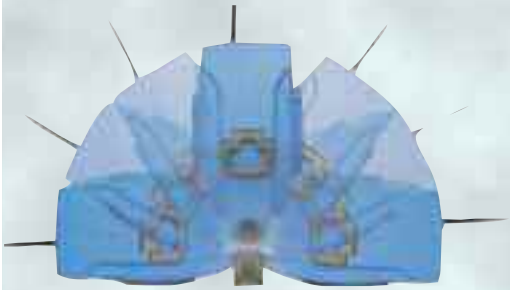


Shell and Wall bracket in polypropylene high resistance

- *Servicing workshops*
- *Garages*
- *Assembly factories*
- *Process industries*
- *Joinery and cabinetwork*
- *Spraying vehicles*

Removable

Swivel 180°



Automatic hose rewind

With Technobel PU

20 m + **2** m* | **9,5** mm x **14,5** mm | **10** bar | **40** bar | **8** kg

* Feeder hose with BSP 1/4” thread

One unit per pack (Wall bracket included)	Wall Bracket with fixing screw
Ref	Ref
2491 0000	**Z 71023**

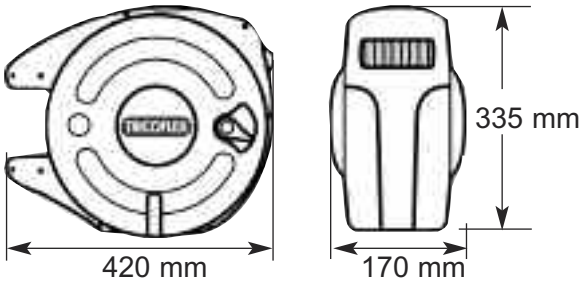
MiniReel Pro

Hose reel for compressed air

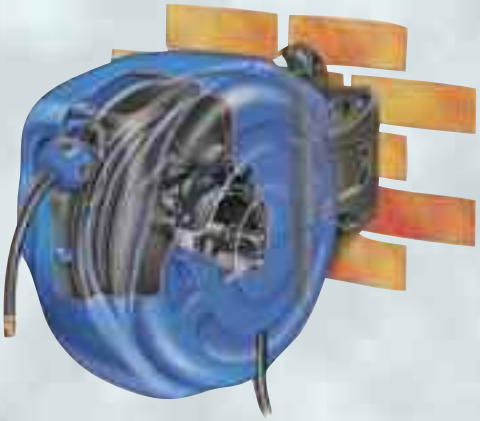
With security locked system

- *Servicing workshops*
- *Garages*
- *Assembly factories*
- *Process industries*
- *Joinery and cabinetwork*

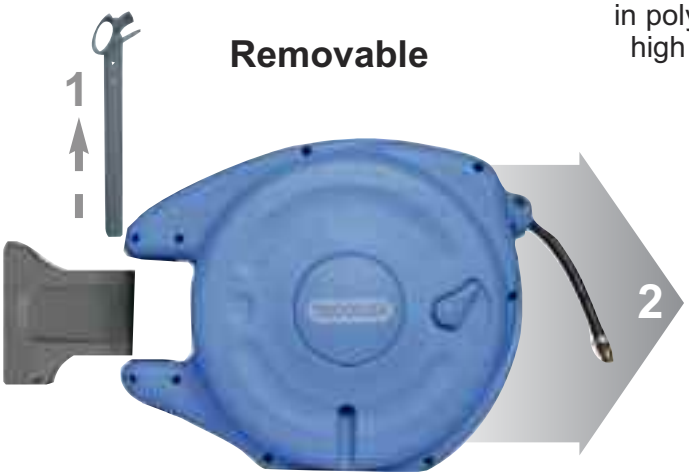
With brass fittings BSP 1/4” B.S.P.T.



Shell and Wall bracket in polypropylene high resistance



Removable



Swivel 180°

With Super Nobelair Soft

10 m + **1,5** m*	**8** mm x **13** mm	**10** bar	**40** bar	**4** kg

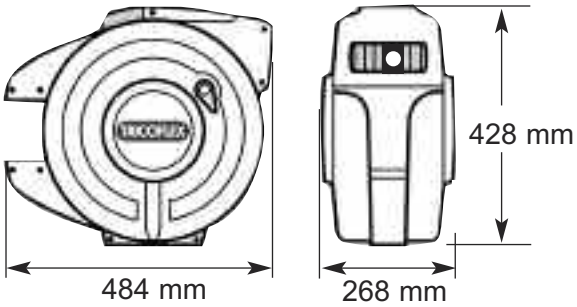
* Feeder hose with BSP 1/4” thread

One unit per pack (Wall bracket included)	Wall Bracket with fixing screw
Ref	Ref
2486 3460	**Z 71023**

WaterReel Pro

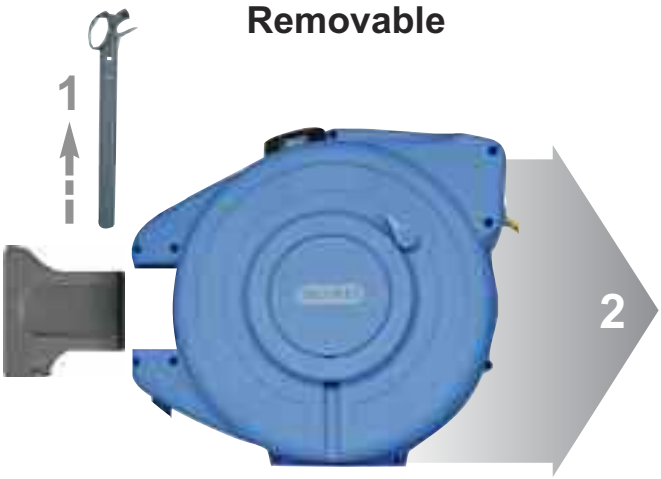
Hose reel for water (Max. 50°C)

With security locked system



Shell and Wall bracket in polypropylene high resistance

Removable



With quick connectors and metal gun

Swivel 180°

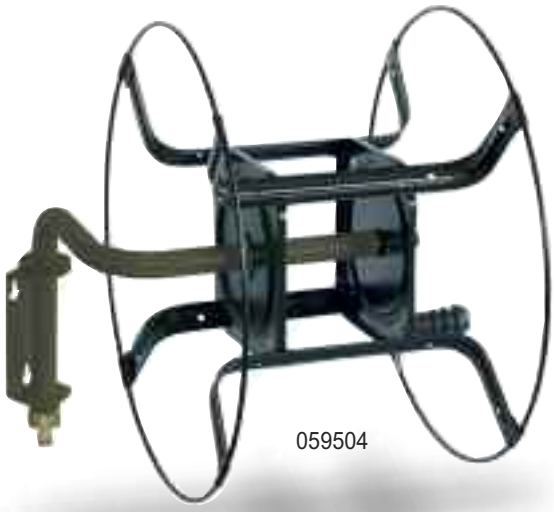
Automatic hose rewind

18,5 m + **2** m*	**12** mm x **16,5** mm	**8** bar	**24** bar	**8** kg

* Feeder hose with quick connectors

One unit per pack (Wall bracket included)	Wall Bracket with fixing screw
Ref	Ref
2493 1240	**Z 71023**

Metal hose reels



059504

059506

059505

	Swivelling wall-mounted 059504	Venus 059506	4x4 059505
Capacity equipped with ø 15mm	70m	70m	120m
Capacity equipped with ø 19mm	50m	50m	85m
Water flow	25mm	25mm	25mm
Dimensions (cm) L x W x H	48 x 46 x 36	45 x 49 x 63	95 x 57 x 90
Use	Multi-use: watering/spraying, car-washing, storage in industrial environments, etc.	Multi-use: watering/spraying, Car-washing, etc.	Multi-use: watering/spraying, large-surface irrigation, storage in industrial environments, etc.
Feature	Wall fixation. Swivel.	2 wheels ø150mm	4 wheels ø260mm (2 swivel)
Supplied accessories	2 tap connectors	2 tap connectors	2 tap connectors Accessory storage shelf

Sprayers

For acid or alkaline solutions, solvents, hydrocarbons, agricultural and wood treatment products.

PE Polyethylene
PP Polypropylene
Viton® is a mark of Dupont Dow Elastomers.

	5102P0000	5505 0000	5507 0000	5510 0000
Capacity	1,25 L	5 L	7 L	10 L
Washer	Viton®	Viton®	Viton®	Viton®
Outlet body & pressure release valve	-	PP	PP	PP
Lance tube	-	Composite	Composite	Composite
Filter	PP	-	-	-
Hose	-	PVC	PVC	PVC
Bottle	PE	PE	PE	PE
Pump handle	-	PP	PP	PP
Pump	PE	PP	PP	PP
Pack format	Brown carton	Brown carton	2 colors carton	Brown carton
Outer pack quantity	6 pieces	6 pieces	6 pieces	6 pieces

TRICOCLAIR AL, TRICOCLAIR INDUSTRIE, TCF, TUBCLAIR, CRISTAL	MULTIPURPOSE HOSES
AIRSOFT & FLEXIBLES, NOBELAIR PU, NOBELAIR AS, SUPER NOBELAIR SOFT, SUPER NOBELAIR, NOBELAIR AS-R, NOBELAIR AS-R ISO 5359, TUBES PA, TUBES PU, AIRTOP, PROPATRESS, GPL, SOUDAGE	COMPRESSED AIR, MEDICAL GAS, GAS & WELDING
TRESS-NOBEL 20 BAR, TRESS-NOBEL 40 BAR, SUPER TRESS-NOBEL 80 BAR	AGRICULTURAL SPRAYING
TRICOFUEL, TECHNOBEL PU, TECHNOBEL, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS
VITRYL, TUBLAIT, PROFILINE AQUA PLUS, WASHING GUNS, THERMOCLEAN 100 & FLEXIBLES, THERMOCLEAN AL 20, SUPER THERMOCLEAN 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING
TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

MULTIPURPOSE

B.P.
28/81 bar

TRICOCLAIR® AL

+60
-15 °C

PHTHALATE FREE
PHTHALATES < 0,1 %

(EU) N° 10/2011

Simulants A, B, C, D1

- ✓ fruit juices
- ✓ wines
- ✓ alcohols
- ✓ milk

1. Class A flexible PVC
2. Polyester reinforcement
3. Class A flexible PVC

High performance, multipurpose reinforced, food quality hose.

High resistant three layer design, in flexible, transparent, class A PVC, with high resistant polyester fibre reinforcement.

APPLICATIONS

Multipurpose hose suitable for numerous applications:

- Supplying compressed air for tools and machines
- Carrying industrial gases
- Carrying foodstuffs
- Carrying certain chemical products (industry, medical, laboratories)
- Supplying water (water treatment)

SERVES ALL SECTORS OF INDUSTRY INCLUDING :

- Automotive industry
- Assembly plants
- Plastics industry
- Food production industry
- Construction, garages (for cars, lorries & agricultural machinery)
- Woodworking, etc.

With presentation disc to ø 13mm

Marking: TRICOCLAIR AL Ø inn x out / Ø inn x th. (EU) N° 10/2011 [WP] BAR [Batch number]

ADVANTAGES

The unique formula of the materials used in Tricoclair AL provides it with flexibility, long service life, higher UV resistance and greater transparency.

It is suitable for contact with food products and even alcohols up to 50 % by volume can be carried, up to a temperature of 40°C. For its part, the balanced reinforcement provides high pressure resistance with little deformation. Thus, it can withstand long and frequent pressure impulse a pressure cycles.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors. band, worm drive, screw or butterfly clamps.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Tricoclair possesses broad chemical compatibility. Amongst the products compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, acetic, boric, citric, nitric, phosphoric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).

TRICOCLAIR® AL

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Transparent 25 m	50 m	100 m
4	+/- 0,2	8	+/- 0,4	2	45	81	27	22		050174	
6	+/- 0,2	12	+/- 0,4	3	102	66	22	36	054281	050400	
6,3	+/- 0,2	11	+/- 0,4	2,35	76	66	22	39	050084		
7	+/- 0,3	13	+/- 0,5	3	108	63	21	46	050095		
8	+/- 0,3	14	+/- 0,5	3	124	60	20	54	050106	050196	
9	+/- 0,3	15	+/- 0,5	3	135	60	20	66	054966	054955	
10	+/- 0,4	16	+/- 0,6	3	146	60	20	74	050117	050207	049960
12	+/- 0,5	19	+/- 0,6	3,5	204	60	20	90	050128	050218	
13	+/- 0,5	20	+/- 0,7	3,5	218	60	20	101	050695	050264	
15	+/- 0,5	23	+/- 0,7	4	291	60	20	120	050130	050310	103572
19	+/- 0,6	27	+/- 0,8	4	346	60	20	157	050289	050276	050277
20	+/- 0,6	28	+/- 0,8	4	361	60	20	170	050141	054270	
25	+/- 0,7	34	+/- 0,9	4,5	500	48	16	219	050466	050455	
25	+/- 0,7	36	+/- 0,9	5,5	631	52	17	225	050152	054145	
30	+/- 0,8	41	+/- 1,0	5,5	748	40	13	277	050163	050253	
32	+/- 0,8	42	+/- 1,0	5	697	36	12	320	050490	050488	
38	+/- 1,0	48	+/- 1,2	5	810	36	12	420	054933	054156	
40	+/- 1,0	52	+/- 1,2	6	1040	32	10	460	050365		
50	+/- 1,0	64	+/- 1,2	7	1467	28	9	600	050376		

MULTIPURPOSE

B.P.
48/60 bar

TRICOCLAIR® INDUSTRIE

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C

- ✓ fruit juices
- ✓ wines

1. Class A flexible PVC
2. Polyester reinforcement
3. Class A flexible PVC

APPLICATIONS

Multipurpose hose suitable for numerous applications:

- Supplying compressed air for tools and machines
- Carrying industrial gases
- Carrying non fatty foodstuffs or light alcohols
- Carrying certain chemical products (industry, medical, laboratories)
- Supplying water (water treatment)

SECTORS OF ACTIVITY

- Automotive industry
- Assembly plants
- Plastics industry
- Construction, garages (for cars, lorries & agricultural machinery), Woodworking, etc.

High performance, multipurpose reinforced hose.

High resistant three layer design, in flexible, transparent, class A PVC, with high resistant polyester fibre reinforcement.

Marking: TRICOCLAIR INDUSTRIE Ø inn x out / Ø inn x th. (EU) N° 10/2011 Sim. A, B, C [WP] BAR [Batch number]

ADVANTAGES

The unique formula of the materials used in Tricoclair Industrie provides it with flexibility, long service life, higher UV resistance and greater transparency.

For its part, the balanced reinforcement provides high pressure resistance with little deformation. Thus, it can withstand long or frequent pressure cycle.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors. band, worm drive, screw or butterfly clamps.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Tricoclair Industrie possesses broad chemical compatibility. Amongst the products compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, acetic, boric, citric, nitric, phosphoric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Transparent 25 m	50 m	100 m
6	+/- 0,2	12	+/- 0,4	3	98	60	20	36	163032	163033	
8	+/- 0,3	14	+/- 0,5	3	120	60	20	54	163045	163046	
9	+/- 0,3	15	+/- 0,5	3	133	60	20	66		163062	
10	+/- 0,4	16	+/- 0,6	3	145	60	20	74	163084	163085	163083
12	+/- 0,5	19	+/- 0,6	3,5	198	60	20	90	163100	163101	
13	+/- 0,5	20	+/- 0,7	3,5	211	60	20	101	163132	163133	
15	+/- 0,5	23	+/- 0,7	4	274	60	20	120	163140	163141	163142
19	+/- 0,6	27	+/- 0,8	4	343	60	20	157	163161	163162	
20	+/- 0,6	28	+/- 0,8	4	358	60	20	170	163175	163176	
25	+/- 0,7	34	+/- 0,9	4,5	497	48	16	219	163184	163185	

MULTIPURPOSE

B.P.
24/40 bar

TCF

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C

- ✓ fruit juices
- ✓ wines

1. Flexible PVC
2. Polyester reinforcement
3. Flexible PVC

APPLICATIONS

Multipurpose hose suitable for numerous applications :
- Compressed air hose for supplying pneumatic tools
- For equipping assembly work stations, wall-mounted or mobile dispensers, compressors

ALL SECTORS OF ACTIVITY

- Automotive industry
- Assembly plants
- Plastics industry
- Construction
- Garages (for cars, lorries & agricultural machinery)
- Woodworking etc.

Multipurpose hose.

Three layer design, in flexible, clear PVC, with high resistant polyester fibre reinforcement.

Marking: Ø inn x Ø out / Ø inn x th. (EU) N° 10/2011 Sim. A, B, C [batch number]

ADVANTAGES

The materials used in TCF provide it with flexibility, high transparency, UV protection.
Moreover, its balanced reinforcement provides good resistance to pressure and deformation at low pressures.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors. band, worm drive, screw or butterfly clamps.

CHEMICAL RESISTANCE

TCF is suitable for various acids and alkalis. For more information please consult table pages 102 to 105 column A.
Warning : Hydrocarbons make TCF quickly degrade. Please consult us.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Transparent 25 m	Transparent 50 m	Blue 25 m	Red 25 m
6,3	+/- 0,3	11	+/- 0,5	2,35	77	40	13	50	149621	149622		
8	+/- 0,4	13	+/- 0,6	2,5	100	40	13	65	149635	149648	125675	
10	+/- 0,4	15	+/- 0,6	2,5	120	40	13	80	149651	149664	125691	125688
12,5	+/- 0,5	18	+/- 0,7	2,75	160	40	13	110	149677	149680	125717	125704
16	+/- 0,8	22	+/- 0,8	3	217	40	13	145	149693	149706		
19	+/- 0,8	26	+/- 0,8	3,5	300	40	13	174	149712	149725		
25	+/- 0,8	33	+/- 1,0	4	444	40	13	260	149738	149741		
30	+/- 0,8	40	+/- 1,0	5	670	36	12	300	149754	149767		
32	+/- 0,8	41	+/- 1,0	4,5	629	36	12	350	149770	149783		
38	+/- 1,0	47	+/- 1,2	4,5	733	33	11	400	149796	149809		
40	+/- 1,0	50	+/- 1,2	5	865	26	8	420	149812			
50	+/- 1,0	60	+/- 1,2	5	1056	24	8	500	149825			

TUBCLAIR® AL

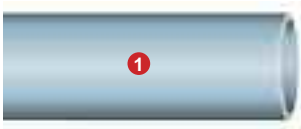
+60
-15 °C

PHTHALATE FREE < 0,1 % PHTHALATES

(EU) N° 10/2011

Simulants A, B, C, D1

- ✓ fruit juices
- ✓ alcohols
- ✓ wines
- ✓ milk



1 Food grade transparent PVC

Single layer multipurpose food quality tube in flexible, transparent, class A PVC.

APPLICATIONS

- Carrying various non-pressurized liquids: water, certain acids and bases, foodstuff liquids such as milk, fruit juices, beer, wines...
- Carrying powdered foodstuffs

SECTORS OF ACTIVITY

- Industry in general
- Food production industry
- Laboratories

Marking: TUBCLAIR AL (EU) N° 10/2011 [batch number]

ADVANTAGES

Designed with the finest quality materials, Tubclair AL is a flexible, very transparent, lightweight hose suitable for foodstuffs. Alcohols up to 50% by volume can even be carried, up to a temperature of 40°C. Amongst its other qualities, it has an excellent service life and benefits from higher UV protection.

Tubclair AL is available in a comprehensive range of diameters.

CONNECTORS

Barbed or serrated type connectors with band or butterfly clamps. Swaged fittings are unsuitable.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A. Tubclair possesses broad chemical compatibility. Amongst those compatible under certain temperature and concentration conditions, we mention: certain acids (hydrochloric, sulphuric...); certain bases (sodium hydroxide, potassium...); bleach; sea water; salts (certain chlorides, nitrates, sulphates, phosphates, carbonates...).

Warning

Usage for hydrocarbon leads to a loss of flexibility which can cause Tubclair hose degradation. Please contact us for further details.

mm	± mm	mm	mm	± mm	g/m	25 m ref.	25 m box*	50 m ref.	50 m box*	100 m ref.	100 m box*
2	+/- 0,2	4	1	+/- 0,2	11					147263	300m
3	+/- 0,2	5	1	+/- 0,2	15			147289	300m		
3	+/- 0,2	6	1,5	+/- 0,2	26			147305	300m		
4	+/- 0,2	6	1	+/- 0,2	19			147318	300m	147321	300m
4	+/- 0,2	7	1,5	+/- 0,2	32			147334	250m		
4	+/- 0,2	8	2	+/- 0,2	46			147347	150m		
5	+/- 0,2	7	1	+/- 0,2	23			147566	250m		
5	+/- 0,2	8	1,5	+/- 0,2	37	147363	200 m	094493	300m		
5	+/- 0,3	9	2	+/- 0,2	54					147376	300m
6	+/- 0,3	8	1	+/- 0,2	28			147389	200m		
6	+/- 0,3	9	1,5	+/- 0,2	43			147392	300m		
6	+/- 0,3	10	2	+/- 0,2	60			147405	300m		
6	+/- 0,3	12	3	+/- 0,2	102			147418	150m		
7	+/- 0,4	10	1,5	+/- 0,2	50			147421	300m		
8	+/- 0,4	11	1,5	+/- 0,2	53	147453	250 m	147466	200m	147479	300m
8	+/- 0,5	12	2	+/- 0,2	77			147495	300m		
9	+/- 0,5	12	1,5	+/- 0,2	61			147511	300m		
9	+/- 0,5	13	2	+/- 0,2	82			147524	200m		
10	+/- 0,5	13	1,5	+/- 0,2	65			147537	200m		

*Quantity per box = Minimum order

TUBCLAIR® AL

mm	± mm	mm	mm	± mm	g/m	Transparent 25 m	50 m	100 m
10	+/- 0,5	14	2	+/- 0,2	90	072000	072011	
10	+/- 0,5	16	3	+/- 0,3	146		096130	
12	+/- 0,5	15	1,5	+/- 0,2	76		096143	
12	+/- 0,5	16	2	+/- 0,2	105	072022	072033	
12	+/- 0,5	18	3	+/- 0,3	169		096169	
13	+/- 0,5	17	2	+/- 0,2	112		096185	
13	+/- 0,5	19	3	+/- 0,3	180		096198	
14	+/- 0,5	18	2	+/- 0,2	120		096201	
15	+/- 0,5	19	2	+/- 0,2	127	072044		
15	+/- 0,5	20	2,5	+/- 0,2	164	065430	065441	
15	+/- 0,5	21	3	+/- 0,3	202		096243	
16	+/- 0,5	20	2	+/- 0,2	135		096269	
16	+/- 0,5	21	2,5	+/- 0,2	174		096272	
16	+/- 0,5	22	3	+/- 0,3	215		096285	
18	+/- 0,5	22	2	+/- 0,2	145		096301	
18	+/- 0,5	23	2,5	+/- 0,2	195	072066	072077	072076
19	+/- 0,5	24	2,5	+/- 0,3	198		096327	
19	+/- 0,5	25	3	+/- 0,3	255		096330	
19	+/- 0,8	26	3,5	+/- 0,3	290		096343	
19	+/- 0,8	27	4	+/- 0,3	338		096356	
20	+/- 0,8	24	2	+/- 0,3	162		096362	
20	+/- 0,8	25	2,5	+/- 0,3	215	072088	072090	
20	+/- 0,8	26	3	+/- 0,3	252		096375	
22	+/- 0,8	28	3	+/- 0,3	275		096388	
25	+/- 1	31	3	+/- 0,3	320	096562	096420	
25	+/- 1	32	3,5	+/- 0,3	380	072101	072112	
25	+/- 1	33	4	+/- 0,4	425		096433	
27	+/- 1	33	3	+/- 0,4	330		096462	
30	+/- 1	37	3,5	+/- 0,4	430		096488	
30	+/- 1	38	4	+/- 0,4	500	072123	072134	
32	+/- 1	40	4	+/- 0,4	545	096620		
32	+/- 1	42	5	+/- 0,4	705	096633		
35	+/- 1	42	3,5	+/- 0,4	510	096646		
35	+/- 1	43	4	+/- 0,4	573	072145		
38	+/- 1	48	5	+/- 0,5	789	096662		
40	+/- 1,5	48	4	+/- 0,5	648	096681		
40	+/- 1,5	49	4,5	+/- 0,5	736	072167		
40	+/- 1,5	50	5	+/- 0,5	826	096694		
50	+/- 1,5	60	5	+/- 0,5	1045	072180	072191	
60	+/- 1,5	70	5	+/- 0,5	1200	072202		

MULTIPURPOSE

CRISTAL

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C

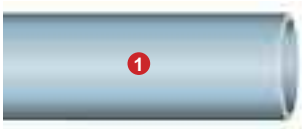
- ✓ fruit juices
- ✓ wines

APPLICATIONS

- Carrying non fatty foodstuffs or light alcohols
- Carrying non-pressurised aqueous liquids

SECTORS OF ACTIVITY

- Industry in general



1 Food grade transparent PVC

Single layer PVC tube in flexible, transparent PVC.

Marking: (EU) N° 10/2011 Sim. A, B, C [batch number]

CONNECTORS

Barbed or serrated connectors with band or butterfly clamps. Swaged fittings are unsuitable.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.
Not hydrocarbon resistant.

mm	± mm	mm	mm	± mm	g/m	Transparent 25 m	50 m	100 m
4	+/- 0,2	6	1	+/- 0,2	19			141040
4	+/- 0,2	7	1,5	+/- 0,2	31		069141	
5	+/- 0,2	8	1,5	+/- 0,2	37		069167	
6	+/- 0,3	9	1,5	+/- 0,2	43		069286	
7	+/- 0,4	10	1,5	+/- 0,2	49		069290	
8	+/- 0,4	10	1	+/- 0,2	34		069326	
8	+/- 0,4	11	1,5	+/- 0,2	54		069328	
8	+/- 0,5	12	2	+/- 0,2	75		141266	
9	+/- 0,5	12	1,5	+/- 0,2	60		093910	069153
10	+/- 0,5	13	1,5	+/- 0,2	66		069330	
10	+/- 0,5	14	2	+/- 0,2	90		141369	
10	+/- 0,5	16	3	+/- 0,3	147		141372	
12	+/- 0,5	15	1,5	+/- 0,3	77		069340	
12	+/- 0,5	16	2	+/- 0,3	106		069360	
15	+/- 0,8	19	2	+/- 0,3	130		141919	
15	+/- 0,8	21	3	+/- 0,3	204		141485	
16	+/- 0,8	20	2	+/- 0,3	138		141501	
16	+/- 0,8	21	2,5	+/- 0,3	176		141505	
19	+/- 0,8	24	2,5	+/- 0,3	205		141510	
20	+/- 0,8	26	3	+/- 0,3	260		141633	
25	+/- 1,0	31	3	+/- 0,3	317	141662		
30	+/- 1,0	37	3,5	+/- 0,4	442	141720		
38	+/- 1,0	48	5	+/- 0,5	818	141817		

AIRSOFT & FLEXIBLES, NOBELAIR PU, NOBELAIR AS, SUPER NOBELAIR SOFT, SUPER NOBELAIR, NOBELAIR AS-R, NOBELAIR AS-R ISO 5359, TUBES PA, TUBES PU, AIRTOP, PROPATRESS, GPL, SOUDAGE	COMPRESSED AIR, MEDICAL GAS, GAS & WELDING
TRESS-NOBEL 20 BAR, TRESS-NOBEL 40 BAR, SUPER TRESS-NOBEL 80 BAR	AGRICULTURAL SPRAYING
TRICOFUEL, TECHNOBEL PU, TECHNOBEL, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS
VITRYL, TUBLAIT, PROFILINE AQUA PLUS, WASHING GUNS, THERMOCLEAN 100 & FLEXIBLES, THERMOCLEAN AL 20, SUPER THERMOCLEAN 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING
TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

COMPRESSED AIR

B.P.
64 bar

AIRSOFT PERFORMANCE

+60
-20 °C

1 Extra-soft smooth black non-staining and oil resistant PVC
2 4 Intermediate layer in extra-soft black PVC
3 Polyester reinforcement
5 Extra-soft red oil resistant PVC

Highly flexible hose for compressed air.

Five layers, in extra-flexible PVC, with high strength polyester reinforcement.

APPLICATIONS

- Pneumatic tools
- Equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

- Automotive industry
- Plastics industry
- Assembly factories
- Workshops for cars, lorries and agricultural vehicles
- Woodwork

Marking: AIRSOFT Ø inn x Ø out / Ø inn x thickness 16 BAR [batch number]

ADVANTAGES

AIRSOFT Performance sets a new standard of flexibility for compressed-air use. Its innovative and exclusive structure, the result of years of TRICOFLEX's know-how, offers an exceptional hose solution that combines extreme manageability with unyielding resistance. AIRSOFT Performance works discreetly even in cold weather.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column B.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Black 25 m	Black 50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	77	64	16	35	100050	100051
8	+/- 0,4	13	+/- 0,4	2,5	100	64	16	50	100052	100053
9	+/- 0,5	14,5	+/- 0,5	2,75	123	64	16	50	100054	100055
10	+/- 0,5	15,5	+/- 0,5	2,75	134	64	16	70	100056	100057
12,7	+/- 0,6	19	+/- 0,6	3,15	190	64	16	100	100058	100059
16	+/- 0,6	23	+/- 0,6	3,5	254	64	16	140	100060	100061
19	+/- 0,8	26,5	+/- 0,8	3,75	323	64	16	140	100062	100063
25	+/- 1,0	33,5	+/- 1,0	4,25	469	64	16	240	100064	100065

ASSEMBLIES

ADVANTAGES

- Pressure resistance at room temperature tested 10,000 cycles
- Pressure resistance in cycled temperature tested 5,000 cycles
- Pull strength> 80 daN
- Full traceability on crimping
- Traceability on ferrules and fittings

Airsoft Performance Assemblies		
hose (mm)	Nickel plated steel fittings with zinc plated sleeves	10 m
8	1/4" (gas)	100067
10	1/4" (gas)	100070

FITTINGS

hose (mm)	Minimum length of end caps and skirts (mm)	X (mm) Crimping diameter	X (mm)	X (mm)	Box (10 males & 10 sleeves)
8	25	14,0 +/- 0,2	11,0 +/- 0,2	3,0 +/- 1	059006
10	25	15,2 +/- 0,2	11,0 +/- 0,2	4,0 +/- 1	059007

COMPRESSED AIR

B.P.
60 bar

NOBELAIR® PU

+80
-40 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1. Cover in flexible blue PU
2. Flexible PU intermediate layer
3. Polyester reinforcement
4. Clear PU inner wall

APPLICATIONS

- Pneumatic tools
- Equipment of assembly workshops, wall mounted reels, carts and compressors
- Automated welding

SECTORS OF ACTIVITY

- Automotive industry
- Plastics industry
- Assembly factories
- Workshops for cars, lorries and agricultural vehicles
- Woodwork

PU hose for compressed air.

Four layers, in flexible PU-ether resistant to hydrolysis, with high strength polyester reinforcement.

Marking: NOBELAIR PU Ø inn x Ø out [batch number]

ADVANTAGES

The chosen PU ether for Nobelair PU gives it exceptional flexibility and resistance. These qualities, in addition to being lightweight, make this an appreciated pneumatic tool used both indoors and out.

Thanks to a well balanced reinforcement, Nobelair PU has a high pressure resistance with little distortion under pressure. So it can withstand long and frequent impulse cycles. Nobelair PU is certified by the TÜV organization.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

The Nobelair PU is also suitable for the transfer of certain hydrocarbons. Consult us.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 50 m
6	+/- 0,3	10	+/- 0,4	2	56	60	20	50	147715
8	+/- 0,4	12	+/- 0,4	2	70	60	20	70	147720
10	+/- 0,4	14,5	+/- 0,5	2,25	96	60	20	80	147722
12,5	+/- 0,5	17	+/- 0,6	2,25	116	60	20	100	147724

COMPRESSED AIR

B.P.
64 bar

NOBELAIR® AS

+90
-20 °C

Suitable for sites subject ATEX Directive

1. Oil and grease resistant matt blue outer covering
2. Textile reinforcement
3. Extra flexible PVC intermediate layer
4. Antistatic black PVC inner wall

APPLICATIONS

Hose designed specially for compressed air supply in arduous conditions and/or hazardous environments:
- Compressed air sets for pneumatic tools
- Small compressors
- Paint spraying (air hose)

SECTORS OF ACTIVITY

- Automotive industry
- Plastics industry
- Assembly factories
- Garages (for cars, lorries and agricultural vehicles)
- Woodwork

Antistatic PVC hose for arduous applications,
comprising three thermoplastic layers, reinforced with a high resistant textile polyester braiding. Its inner lining is smooth and conducts electricity.

Resistivity
$<10^6\ \Omega/m$
complies with NF EN ISO 8031

Marking: NOBELAIR A.S. 16 BAR ANTISTATIC [batch number]

ADVANTAGES

Nobelair AS is a top of the range hose linking comfort and resistance in use to the most arduous conditions, its extremely flexible, lightweight and user friendly. Its considerable thickness ensures a maintained hose profile. Its coating offers protection in the event of contact with aggressive products (oils, greases, hydrocarbons, paints). The well balanced reinforcement provides it with excellent dimensional stability.
The capability of Nobelair AS to dissipate electrostatic currents is a guarantee of safety in the event of usage in hazardous environments (paint booths, presence of hydrocarbons...). This capability is achieved by the addition of carbon directly into the hose material.

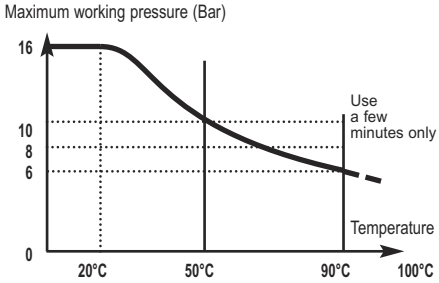
CONNECTORS

Warning
Metal connectors must be used to maintain electrical continuity. Quick connectors, barbed or serrated insert or grooved connectors. Swaged fittings can be used if they do not damage the hose.

Continuous use up to 90°C at 6 bar (100° at peak)

CHEMICAL RESISTANCE

See table pages 102 to 105 column B for outer layer, col. A for inner layer.



mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 20 m	Blue 40 m
7	+/- 0,4	14	+/- 0,4	3,5	153	64	16	42	147624	
8	+/- 0,4	15	+/- 0,4	3,5	168	64	16	48	147640	147655
9	+/- 0,5	16	+/- 0,5	3,5	183	64	16	54	147666	147679
10	+/- 0,5	17,5	+/- 0,5	3,75	216	64	16	60	147682	147695
12	+/- 0,6	20	+/- 0,6	4	267	64	16	72	147708	147711

B.P.
60 bar

SUPER NOBELAIR® SOFT

+60
-20
°C

1. Extra-flexible blue PVC
2. Polyester reinforcement
3. Extra-flexible black PVC

APPLICATIONS

- Pneumatic tools
- Equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY

- Automotive industry
- Plastics industry
- Assembly factories
- Workshops for cars, lorries and agricultural vehicles
- Woodwork

Highly flexible hose for compressed air.

Three layers, in extra-flexible PVC, with high strength polyester reinforcement.

Marking: SUPER NOBELAIR SOFT Ø inn x Ø out / Ø inn x thickness 15 BAR [batch number]

ADVANTAGES

Compounds specially developed for Super Nobelair Soft give it a high flexibility even at low temperature. This property, associated with lightness, makes the use of this hose easier; therefore the hose is particularly appreciated by users of pneumatic tools both outdoors and indoors. PVC structure eliminates any risk of cracks (flaws of a lot of rubber hoses), making this hose long lasting.

Thanks to a well balanced reinforcement, Super Nobelair Soft has a high pressure resistance with little distortion under pressure. So it can withstand long and frequent impulse cycles. Super Nobelair Soft is certified by the TÜV organization.

CONNECTORS

Quick connectors, barbed or serrated grooved connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 25 m	Blue 50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	81	60	15	45	148362	147753
8	+/- 0,4	13	+/- 0,4	2,5	106	60	15	56	148375	147766
9	+/- 0,5	14,5	+/- 0,5	2,75	131	60	15	63	148388	147772
10	+/- 0,5	15,5	+/- 0,5	2,75	141	60	15	70	148391	147785
12,7	+/- 0,6	19	+/- 0,6	3,15	200	60	15	89	147956	148162
16	+/- 0,6	23	+/- 0,6	3,5	265	60	15	112	158059	158062
19	+/- 0,8	26,5	+/- 0,8	3,75	337	60	15	145	158075	158088
25	+/- 1,0	33,5	+/- 1,0	4,25	493	60	15	210	158091	158104

COMPRESSED AIR

B.P.
60 bar

SUPER NOBELAIR®

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1. Flexible beige PVC
2. Polyester reinforcement
3. Flexible black PVC

APPLICATIONS
- Pneumatic tools
- Equipment of assembly workshops, wall mounted reels, carts and compressors

SECTORS OF ACTIVITY
- Automotive industry
- Plastics industry
- Assembly factories
- Garages (for cars, lorries and agricultural vehicles)
- Woodwork

Hose for compressed air supply.
Three layer design, in extra flexible PVC, with high resistant polyester fibre reinforcement.

Marking: SUPER NOBELAIR 20 BAR [batch number]

ADVANTAGES
The balanced reinforcement of Super Nobelair enables it to withstand high pressure with minimal distortion. Thus, it can withstand extended and frequent pressure impulse cycles.
The composition of this flexible and light hose provides it with good resistance to impacts and distortion.
Moreover, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life.

CONNECTORS
Quick connectors, barbed or serrated connectors.
Band, worm drive, screw or butterfly clamps.
Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Beige 25 m	Beige 50 m	Beige 100 m
6,3	+/- 0,3	11	+/- 0,3	2,35	85	60	20	45		198022	
7	+/- 0,4	12	+/- 0,4	2,5	90	60	20	49	198051		
8	+/- 0,4	13	+/- 0,4	2,5	107	60	20	56	198093	198106	198119
9	+/- 0,5	14,5	+/- 0,5	2,75	132	60	20	63		198148	
10	+/- 0,5	15,5	+/- 0,5	2,75	143	60	20	70	198177	198180	
12,7	+/- 0,6	19	+/- 0,6	3,15	205	60	20	89	198212	198225	198238
16	+/- 0,6	23	+/- 0,6	3,5	284	60	20	112	198254	198267	
19	+/- 0,8	26,5	+/- 0,8	3,75	352	60	20	145	198296	198309	198312
25	+/- 1,0	33,5	+/- 1,0	4,25	515	60	20	210	198338	198341	

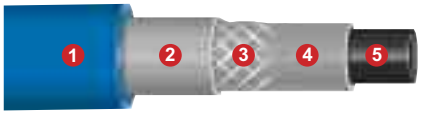
COMPRESSED AIR

B.P.
60 bar

NOBELAIR AS/R

+70
-20 °C

PHTHALATES < 0,1 % PHTHALATE FREE



1. Matt blue or green oil resistant PVC outer covering
2. 4. Inner intermediate PVC layer
3. Textile reinforcement in polyester
5. Antistatic black inner PVC wall

APPLICATIONS

Specially designed for compressed air supply to individual protective apparatus which are in accordance with the **EN 14593** and **EN 14594** standards

SECTORS OF ACTIVITY

- Nuclear power plants
- Petrochemical industry
- Paint application in building and manufacturing

Reinforced hose for Breathing air.

In accordance with EN 14593 and EN 14594 standards. Antistatic, heat resistant and 5 layer construction with polyester reinforcement.

Resistivity
$<10^6\ \Omega/m$
complies with NF EN ISO 8031

Marking: Nobelair AS/R for EN14593 & EN14594 Ø inn x Ø out Breathing air hose / Antistatic / Heat resistant / Decontamination proof [Year of fabrication] [batch number]

ADVANTAGES

Nobelair AS/R hose is a top of the range hose, linking comfort of use to resistance in the most arduous conditions. Its extremely flexible, lightweight and user friendly.
Its considerable thickness ensures a retained profile.
The well balanced reinforcement provides it with excellent dimensional stability.
The antistatic inner layer of Nobelair AS/R breathing air hose is a guarantee of safety if use in hazardous environments (paint booths, presence of hydro-carbons…). This capability is permanent, obtained by the addition of carbon directly into the hose material.

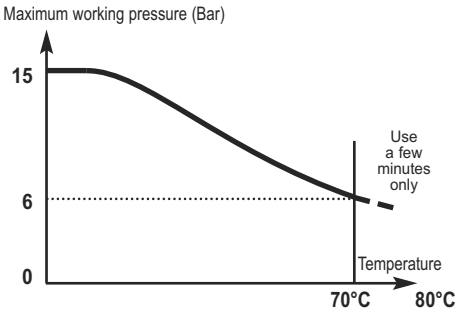
CONNECTORS

Warning: Metal connectors must be used to maintain electrical continuity: Quick connectors, barbed or serrated connectors. Swaged fittings can be used if they do not damage the hose.

Continuous use up to 70°C at 6 bar (80° at peak)

CHEMICAL RESISTANCE

See table pages 102 to 105 column B for outlayer, col. A for innerlayer.



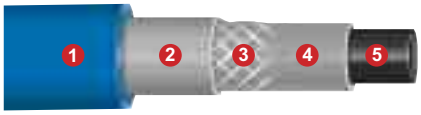
mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 25 m	Blue 50 m	Green 50 m
6	+/- 0,5	12	+/- 0,5	3	103	60	15	40		092843	093651
8	+/- 0,5	14	+/- 0,5	3	126	60	15	50	092856	092869	
10	+/- 0,5	16	+/- 0,5	3	148	60	15	65	092872	092885	093653
12,7	+/- 0,6	19	+/- 0,6	3,15	192	60	15	80		092901	
19	+/- 0,8	28	+/- 0,8	4,5	405	60	15	120		092927	

B.P.
60 bar

NOBELAIR AS/R EN ISO 5359

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE



1 Matt PVC outer covering
2 4 Inner intermediate PVC layer
3 Textile reinforcement in polyester
5 Antistatic black inner PVC wall

Reinforced hose for medical gas.
In accordance with EN ISO 5359 standards.

Resistivity
$<10^6\ \Omega/m$
complies with NF EN ISO 8031

APPLICATIONS
Specially designed for transfer of medical gas.

SECTORS OF ACTIVITY
- Hospitals
- Ambulances

Marking: EN ISO 5359 ANTISTATIQUE [Medical gas type] [batch number]

ADVANTAGES
Nobelair AS/R EN ISO 5359 hose is a top of the range hose, linking comfort of use to resistance in the most arduous conditions. Its extremely flexible, lightweight and user friendly. Its considerable thickness ensures a retained profile.
The well balanced reinforcement provides it with excellent dimensional stability. The antistatic inner layer is a guarantee of safety if used in hazardous environments. This capability is permanent, obtained by the addition of carbon directly into the hose material.

CONNECTORS
Warning : Metal connectors must be used to maintain electrical continuity: Quick connectors, barbed or serrated connectors. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

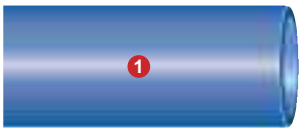
	mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	50 m	
Air	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125450	black + white
Oxygen	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125451	white
Nitrous oxide	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125454	blue
Empty	6,3	+/- 0,3	12,4	+/- 0,3	3	106	60	15	25	125455	yellow

TUBE PA CALIBRÉ

POLYAMIDE 12

+80 / -15 °C

PHTHALATES < 0,1 % PHTHALATE FREE



1 Yellow, blue, green, red, black or translucent polyamide

High precision calibrated polyamide tube.

Mono layer design in flexible polyamide 12, translucent or colored. Smooth inner and outer surfaces.

Complies DIN 73378

APPLICATIONS

- Pneumatic controls
- Transfer of fluids and liquids under pressure: chemical products, fuel and lubricants, lacquers and solvents (please consult us)

SECTORS OF ACTIVITY

- Used for automatic functions on all types of machines: concerns numerous industries using assembly machines, packaging lines...
- Laboratories

Marking: TUBE PA 12 CALIBRE Ø inn x Ø out [batch nb]

ADVANTAGES

In addition to being very light, the Tube PA provides excellent mechanical resistance to impact, fatigue, pulsing, flexing, abrasion and cutting. Its robustness gives it excellent performance under vacuum.

An active calibration process ensures its excellent dimensional accuracy.

Tube PA is made of polyamide 12. The characteristics of this material ensure good general chemical resistance and excellent impermeability to gases. Its low friction factor is provided by a very smooth texture of the inner and outer surfaces.

Varied colors help to identify the different networks easily.

Packaging in a cardboard cassette facilitates storage.

CONNECTORS

Shut off connectors. P.C.L. type connectors.

CHEMICAL RESISTANCE

See table pages 102 to 105 column F.

Reels	1) Ø 320 mm x b. 270 mm					2) Ø 450 mm x b. 350 mm					
mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	L (m)	Transparent	
2	4	+/- 0,1	1	+/- 0,1	9,7	133	33	24	1000	073166	(1)
4	6	+/- 0,1	1	+/- 0,1	16,2	80	20	36	1000	073195	(2)
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	600	073208	(2)
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	400	073237	(2)

Warning: on reel, the hose may include two sections, so 3 lengths could be connected.

Coils in carton boxes (except * which are wrapped)

mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	Transparent 25 m	30 m	50 m	100 m
2	4	+/- 0,1	1	+/- 0,1	9,7	133	33	24			072606	
2,5	4	+/- 0,1	0,75	+/- 0,1	8	105	26	34		072490*		
2,7	4	+/- 0,1	0,65	+/- 0,1	7	90	22	30	072494			072486
4	6	+/- 0,1	1	+/- 0,1	16,2	80	20	36	072516	072517*	072617	072718
5,5	8	+/- 0,1	1,25	+/- 0,1	26,7	65	16	50		072728*		
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	072538	072539*	072630	072731
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	072551	072552*	072652	072753
9	12	+/- 0,15	1,5	+/- 0,1	51,4	42	10	72		072558*		
10	12	+/- 0,15	1	+/- 0,1	35,6	36	9	72	072562		072663	072764*
11	14	+/- 0,15	1,5	+/- 0,1	60,7	48	12	84	072573*			072775*
12	14	+/- 0,15	1	+/- 0,1	42,1	30	7	84	072584*			072786*
13	16	+/- 0,15	1,5	+/- 0,1	70,4	41	10	96	072595*			

Coils in carton boxes (except * which are wrapped)

mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	Blue 25 m	30 m	100 m
2	4	+/- 0,1	1	+/- 0,1	9,7	133	33	24	075219		
2,7	4	+/- 0,1	0,65	+/- 0,1	7	90	22	30			075222
4	6	+/- 0,1	1	+/- 0,1	16,2	80	20	36	073034	073035*	073001
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	073078	073079*	073012
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	073056	073055	
10	12	+/- 0,15	1	+/- 0,1	35,6	36	9	72	075251		

Coils in carton boxes (except * which are wrapped)

mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	Black 25 m	30 m	100 m	Green 25 m
2,7	4	+/- 0,1	0,65	+/- 0,1	7	90	22	30			074542	075438
4	6	+/- 0,1	1	+/- 0,1	16,2	80	20	36	072876	072877*	072810	
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	072854	072855*	072821	
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	072865		072832	
10	12	+/- 0,15	1	+/- 0,1	35,6	36	9	72			074961*	

Coils in carton boxes

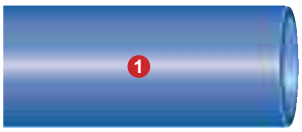
mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	Red 25 m	30 m	Yellow 25 m
2,7	4	+/- 0,1	0,65	+/- 0,1	7	90	22	30	075035		075831
4	6	+/- 0,1	1	+/- 0,1	16,2	80	20	36	072933		
6	8	+/- 0,1	1	+/- 0,1	22,7	57	14	48	072944	072945	
8	10	+/- 0,15	1	+/- 0,1	29,1	45	11	60	072955	072954	

TUBE PU CALIBRÉ

POLYURETHANE

+80 / -15 °C

PHTHALATES < 0,1 % PHTHALATE FREE



1 Blue, red, black or translucent polyurethane

High precision calibrated polyurethane tube (hardness 98 shA).

Mono layer design in flexible translucent or coloured polyurethane. Smooth inner and outer surfaces.

APPLICATIONS

- Pneumatic controls
- Transfer of fluids and liquids under pressure: fuel and lubricants, lacquers and some solvents (please consult us)

SECTORS OF ACTIVITY

- Used for automatic functions on all types of machines: concerns numerous industries using assembly machines, packaging lines...
- Laboratories

Marking: TUBE PU CALIBRE Ø inn x Ø out [batch number]

ADVANTAGES

The calibrated PU tube is remarkable for its flexibility and lightweight. An active calibration process ensures an excellent dimensional accuracy. It has good general chemical resistance, especially for oils, hydrocarbons and some solvents. Its low friction factor is provided by the very smooth texture of the outer and inner surfaces. Varied colours help to identify the different networks easily. Packaging in a cardboard cassette facilitates storage.

CONNECTORS

Shut off connectors. P.C.L. type connectors.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

Coils in carton boxes (except * which are wrapped)

mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	Transparent 25 m	Transparent 100 m	Blue 25 m	Blue 100 m	Black 25 m	Black 100 m
2,5	4	+/- 0,1	0,75	+/- 0,1	9,2	30	10	12			070717			
4	6	+/- 0,1	1	+/- 0,12	19	30	10	15	070762	070775	070788	070791	070804	070810
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	070823		070849	070852	070865	070878
6	8	+/- 0,1	1	+/- 0,12	26,8	27	9	22	071107	071110	071123	071136	071144	071155
7,5	10	+/- 0,15	1,25	+/- 0,15	41,3	24	8	30	072412	072341**	072413	072354*	072425	
8	12	+/- 0,15	2	+/- 0,15	76,4	27	9	35	070936		070949			

**50m

mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	Red 25 m
4	6	+/- 0,1	1	+/- 0,12	19	30	10	15	071590
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	071629

Reels Ø 450 mm x b. 350 mm

mm	mm	± mm	mm	± mm	g/m	bar	bar	mm	L (m)	Blue
5,5	8	+/- 0,1	1,25	+/- 0,12	32	27	9	20	600	071023

Warning: on reel, the hose may include two sections, so 3 lengths could be connected.

COMPRESSED AIR

B.P.
45 bar

AIRTOP

+80
-40 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1. Black SBR cover
2. Polyester reinforcement
3. Inner surface in black NBR/SBR

Rubber hose reinforced with textile fibres.
Made of flexible SBR and NBR, with resistant polyester fibre reinforcement.

APPLICATIONS
- Compressor equipment used to supply pneumatic tools for worksite use. Normal use.

SECTORS OF ACTIVITY
- Construction and civil engineering
- Industry

Marking: AIRTOP PS 15B / PLNE 45B - Made in CEE / trimestre/year of fabrication

ADVANTAGES
Due to its optimal design, Airtop is a hose which offers a very attractive cost/benefit ratio. Suited for all-weather use, it is the ideal hose for supplying compressed air on worksites.

CONNECTORS
Quick fittings with claw clamps of Ø 29.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Black 20 m	Black 40 m
10	+/- 0,6	17	+/- 0,6	3,5	220	45	15	100		166553
13	+/- 0,6	20	+/- 0,6	3,5	260	45	15	120		166555
16	+/- 0,7	23	+/- 0,7	3,5	310	45	15	160		166557
20	+/- 0,8	29	+/- 0,8	4,5	510	45	15	200	166551	166564
25	+/- 0,8	34	+/- 0,8	4,5	600	45	15	250		166559

GAS - WELDING

B.P.
80 bar

PROPA-TRESS®

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1. Flexible orange PVC coating
2. Textile reinforcement
3. Flexible black PVC core

APPLICATIONS

- Welding and associated techniques: Propane supply to blow torches, heated paint booths
- Heating: infra red heaters for livestock rearing buildings heating
- Gas transfer (air or industrial gases)

SECTORS OF ACTIVITY

- Industry
- Agriculture
- Consumer market welding and camping equipment

Reinforced flexible hose for transfer of liquefied petroleum gas.

Three layer design, in flexible PVC, with polyester fibre reinforcement.

Marking : PROPA-TRESS - 2 MPA (20bar) - Ø inn Chemical resistance - [year of production]* - [batch number]

*** Year of production written in the marking is not a date of substitution.**

ADVANTAGES

The qualities of the PVC compound provide the Propa-tress hose with flexibility, light weight, excellent resistance to ageing, and also render it impermeable to LPG.
This hose withstands repeated bending and flattening.

CONNECTORS

Barbed or serrated connectors and worm drive or 'O' type clamps. Crimping is possible with non damaging connectors.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A for outer layer, colomn B for inner layer.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Orange 25 m	Orange 100 m
6,3	+/- 0,4	12	+/- 0,4	2,85	98	80	20	44	051377	
8	+/- 0,5	14	+/- 0,5	3	124	80	20	56	051388	051467
9	+/- 0,5	16	+/- 0,5	3,5	164	80	20	63	051390	

GAS - WELDING

B.P.
60 bar

GPL ISO 3821 (EN 559)

+70
-30
°C

PHTHALATES < 0,1 %

1. Cover in orange soft NBR/EPDM
2. Textile reinforcement
3. Inner tube in black soft NBR

Flexible rubber hose for LPG.

APPLICATIONS
- LPG (butane, propane...)
- Gas welding

SECTORS OF ACTIVITY
- Industry
- Building
- Shipyards

Marking: NF EN 559 - ISO 3821 - PROPANE - 2 MPa (20 BAR) - Ø inn - TRICOFLEX - [year of production]* - made in EU

*** Year of production written in the marking is not a date of substitution.**

ADVANTAGES
This hose complies with ISO 3821 standard. It is very flexible (even at low temperature) and has a very good resistance to abrasion giving a longer service life.
It can be used in any climatic conditions.

CONNECTORS
Usual connections for gas welding.
Worm drive or 'O' type ring clamps. Crimping is possible with non damaging connectors.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Orange 20 m
8	+/- 0,5	15	+/- 0,7	3,5	220	60	20	130	168426
10	+/- 0,5	17	+/- 0,8	3,5	265	60	20	150	168442

B.P.
60 bar

SOUDAGE ISO 3821 (EN 559)

+70
-30 °C

PHTHALATES < 0,1 %

1. Soft cover in blue or red SBR
2. Textile reinforcement
3. Inner tube in soft black SBR

APPLICATIONS

- Gas welding
  (oxy-acetylene)

SECTORS OF ACTIVITY

- Industry
- Building
- Shipyards

Rubber hose for welding.

Three layer hoses, made of SBR, with textile fibre reinforcement.

Marking on blue hose:	NF EN 559 - ISO 3821 - OXYGENE - 2 Mpa (20 BAR) - Ø inn - TRICOFLEX - [year of production]* - made in EU
Marking on red hose:	NF EN 559 - ISO 3821 - ACETYLENE - 2 Mpa (20 BAR) - Ø inn - TRICOFLEX - [year of production]* - made in EU

* Year of production written in the marking is not a date of substitution.

ADVANTAGES

Those hoses comply with ISO 3821 standard. They are very flexible (even at low temperature) and have a very good resistance to abrasion prolonging hose life. They can be used in any climatic conditions. They are available in simple tube, blue for oxygen, red for acetylene, or in a strong twin-tube construction.

CONNECTORS

Standard welding hose fittings with Worm drive or 'O' type ring clamps. Crimping is possible with non damaging connectors.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Red 20 m	Blue 20 m
6,3	+/- 0,4	12	+/- 0,6	2,85	130	60	20	63	167881	167894
10	+/- 0,5	17	+/- 0,7	3,5	230	60	20	130	167923	167936

Twin hoses

Twin hoses										
mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue + red 20 m	Blue + red 40 m
6 / 6	+/- 0,4	13	+/- 0,6	3,5	350	60	20	65	167965	
10 / 10	+/- 0,5	17	+/- 0,8	3,5	500	60	20	100	167981	167994

TRESS-NOBEL 20 BAR, TRESS-NOBEL 40 BAR, SUPER TRESS-NOBEL 80 BAR	AGRICULTURAL SPRAYING
TRICOFUEL, TECHNOBEL PU, TECHNOBEL, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS
VITRYL, TUBLAIT, PROFILINE AQUA PLUS, WASHING GUNS, THERMOCLEAN 100 & FLEXIBLES, THERMOCLEAN AL 20, SUPER THERMOCLEAN 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING
TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

TRESS-NOBEL®

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1. Flexible black or blue PVC
2. Polyester reinforcement
3. Flexible black PVC

APPLICATIONS

- Herbicide spraying treatment of fields, paths, roadside verges, public parks ...
- Insecticide treatment
- Liquid fertilizer transfer and spreading
- Can also be used for compressed air supply

SECTORS OF ACTIVITY

- Agriculture (motorized and towed spraying equipment)
- Agro-chemical industries
- Public authorities
- Public Works departments

Hose for agricultural spraying (20 and 40 bar).

Three layer design, in flexible PVC, with high resistant polyester fibre reinforcement.

TRESS-NOBEL® 20 BAR

B.P. 60 bar

Marking: TRESS-NOBEL 20 BAR Ø inn x Ø out / Ø inn x th. [batch number]

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Black 50 m
8	+/- 0,5	13	+/- 0,5	2,5	96	60	20	56	158110
10	+/- 0,5	15,5	+/- 0,5	2,75	133	60	20	70	158123
12,7	+/- 0,6	19	+/- 0,6	3,15	180	60	20	89	158136
16	+/- 0,6	23	+/- 0,6	3,5	265	60	20	112	154859
19	+/- 0,8	26,5	+/- 0,8	3,75	337	60	20	145	158149
25	+/- 1,0	33,5	+/- 1,0	4,25	493	60	20	210	158178

TRESS-NOBEL® 40 BAR

B.P. 90/120 bar

Marking: TRESS-NOBEL 40 BAR [batch number]

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 25 m	Blue 50 m	Blue 100 m	Black 50 m	Black 100 m
6,3	+/- 0,3	12,5	+/- 0,3	3,1	112	120	40	44		198699			
8	+/- 0,5	14,5	+/- 0,5	3,25	151	120	40	56	198438	198660	198673		192724
9	+/- 0,5	16	+/- 0,5	3,5	181	120	40	63		198467			
10	+/- 0,5	17	+/- 0,5	3,5	195	120	40	70	198496	198509	198512		192753
12	+/- 0,6	20	+/- 0,6	4	264	120	40	84	198531	198544	198557	195821	
16	+/- 0,6	24	+/- 0,6	4	331	115	40	112	198599	198602		192908	
19	+/- 0,8	28	+/- 0,8	4,5	437	115	40	145	198631	198644		196037	
25	+/- 1,0	35	+/- 1,0	5	622	90	40	210	192689	192692		198815	

ADVANTAGES

The balanced reinforcement of Tress-Nobel enables it to withstand high pressure with minimal distortion. Thus, it can withstand extended and frequent pressure impulse cycles.

Furthermore, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life. Tress-Nobel 20 and 40 bar hose withstands prolonged exposure to all climatic conditions.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors.

Band, worm drive, screw or 'O' type ring clamps. Rigid plastic barbed connectors with clip clamps. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

AGRICULTURAL SPRAYING

B.P.
240 bar

SUPER TRESS-NOBEL®

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1 Coating in flexible dark blue PVC
2 4 Double polyester reinforcement
3 5 Flexible black PVC

APPLICATIONS

- Herbicide spraying treatment of fields, paths, roadside verges, public parks ...
- Insecticide treatment
- Liquid fertilizer transfer and spreading
- Can also be used for compressed air supply

SECTORS OF ACTIVITY

- Agriculture (motorized and towed spraying equipment)
- Agro-chemical industries
- Public authorities
- Public Worksdepartments

Hose for agricultural spraying (80 bar).
Five layer design, in flexible PVC, with double layer.
High resistant polyester fibre reinforcement.

Marking: SUPER TRESS-NOBEL 80 BAR [batch number]

ADVANTAGES

The double reinforcement incorporated in Super Tress-Nobel 80 bar provides it with excellent resistance to pressure and enables it to withstand any possible pressure surges with minimal distortion.
It offers good resistance to ultra violet and in general to all weather conditions. Furthermore, the PVC composition eliminates any risks of cracks appearing (particular defect of rubbers), thus improving safety and a long service life.

CONNECTORS

Quick connectors, swaged connectors, barbed or serrated connectors (favor long end fittings). Band, worm drive, screw clamps (double up the clamps). Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 50 m	Blue 100 m
8	+/- 0,5	16,5	+/- 0,5	4,25	215	240	80	56	102324	
10	+/- 0,5	19	+/- 0,5	4,5	273	240	80	70	102408	102411
12	+/- 0,6	22	+/- 0,6	5	356	240	80	84	102440	102453
16	+/- 0,6	26,5	+/- 0,6	5,25	459	240	80	112	102482	
19	+/- 0,8	30,5	+/- 0,8	5,75	581	240	80	153	102527	

TRICOFUEL, TECHNOBEL PU, TECHNOBEL, TUBES PTFE	FUELS & OILS, CHEMICAL PRODUCTS
VITRYL, TUBLAIT, PROFILINE AQUA PLUS, WASHING GUNS, THERMOCLEAN 100 & FLEXIBLES, THERMOCLEAN AL 20, SUPER THERMOCLEAN 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING
TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

B.P.
25/40 bar

TRICOFUEL®

+60
-15 °C

PHTHALATES < 0,1 %
PHTHALATE FREE

1. Flexible clear green PVC outer coating hydrocarbons resistant
2. Fibre reinforcement
3. Smooth clear green PVC core

Transparent hose for hydrocarbons.

Three layer design, with two clear PVC layers sandwiched around a polyester fibre braiding.

ALL FUEL LINES:

- For pumps, circulation pumps, burners, vine heaters
- For frost prevention, heating equipment...
- Transfer of certain chemical products: petrols, certain acids and certain bases, oils, alcohols… (not suitable for aromatic hydrocarbons)

ALL SECTORS OF ACTIVITY:

- Automotive industry, assembly plants, plastics industry, food production industry, construction
- Garages (for cars, lorries & agricultural machinery)
- Woodworking, etc.

Marking: TRICOFUEL [batch number]

ADVANTAGES

The composition of Tricofuel hose material compound is designed specially for hydrocarbon transfer. Thus, its retains its flexibility, even after intensive use. It withstands repeated bending, whilst also offering excellent resistance to ageing. The clear aspect of both the core and the coating provides for easy visual control of fluids transfer.

CONNECTORS

Band, worm drive, screw or 'O' ring clamps.
Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column B.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Green 25 m	Green 50 m
6,3	+/- 0,3	11	+/- 0,3	2,35	81	40	13	44	050985	050998
8	+/- 0,5	14	+/- 0,5	3	129	40	13	56	051162	051175
10	+/- 0,5	16	+/- 0,5	3	152	30	10	70	051246	051259
12	+/- 0,6	19	+/- 0,6	3,5	211	30	10	84	051204	051217
15	+/- 0,6	23	+/- 0,6	4	297	30	10	105	052274	
20	+/- 0,8	28	+/- 0,8	4	373	30	10	140	052680	052693
25	+/- 0,8	32,5	+/- 0,8	3,75	420	25	8	175	050843	050856
30	+/- 1,0	39	+/- 1,0	4,5	603	25	8	210	052883	

B.P.
33/60 bar

TECHNOBEL® PU

+60
-15 °C

1. Extra flexible black PVC (hydrocarbons resistant) or green
2. Polyester reinforcement
3. Extra-flexible PVC
4. Transparent polyurethane ester

APPLICATIONS

- Transfer of petrols, oils and fuels, and certain solvents
- Transfer of moderately abrasive products, powders and granules
- Agricultural spraying (insecticides, pesticides, weed killers, etc)
- Agro-chemical industry

SECTORS OF ACTIVITY

- Industry in general
- Agriculture

Extra flexible hose for hydrocarbons transfer.

Four layer thermoplastic design, with an inner polyurethane wall. Reinforcement formed of a high resistant polyester fibre textile braiding.

Marking: TECHNOBEL PU Ø inn x Ø out / Ø inn x th. [WP/BP] BAR [batch number]

ADVANTAGES

The inner polyurethane layer, associated with specially formulated PVC compounds, provide excellent resistance to oils, hydrocarbons and numerous organic solvents. Moreover, the outer layer (black) provides good chemical resistance to hydrocarbons and solvent charged mist created by spraying. Finally, as the polyurethane is very resistant to abrasion and scratches (5 times greater resistance than PVC), mechanically aggressive products can also be transported by Technobel PU hose (powders, granules, liquid mixtures…).

CONNECTORS

Quick connectors, barbed or serrated connectors. Band, worm drive, screw or butterfly clamps. Cap connectors. Rigid plastic barbed connectors with clip clamps. Swaged fittings can be used if they do not damage the hose.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A for green outer layer, col. B black outer layer, col. C for inner layer.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Green	Black	
									50 m	25 m	50 m
6	+/- 0,3	11	+/- 0,3	2,5	87	60	20	40			153154
8	+/- 0,5	14	+/- 0,5	3	131	60	20	55	152845	153067	
9	+/- 0,5	15	+/- 0,5	3	146	60	20	60			153167
10	+/- 0,5	16	+/- 0,5	3	154	60	20	65		153070	
12,7	+/- 0,5	19	+/- 0,5	3,15	198	60	20	80	152864	153083	
16	+/- 0,8	23	+/- 0,8	3,5	275	60	20	110		153096	
19	+/- 0,8	26	+/- 0,8	3,5	318	60	20	140		153109	153183
25	+/- 1,0	33	+/- 1,0	4	491	45	15	180		153112	153113
32	+/- 1,0	41	+/- 1,0	4,5	671	36	12	235		153115	

B.P.
30/60 bar

TECHNOBEL®

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1. Flexible black PVC coating
2. Polyester fibre reinforcement
3. Flexible black PVC intermediate layer
4. Elastomer polyester

APPLICATIONS

- Compressed air for arduous industrial uses
- Transfer of certain chemical products (please consult us)
- Agro-chemical industry

SECTORS OF ACTIVITY

- Industry in general

Flexible, resistant, low pressure multipurpose hose.

Four layer thermoplastic design with polyester fibre textile. Braided reinforcement and Thermopolymer lining.

Marking: TECHNOBEL Ø inn x Ø out [WP/BP] BAR [Quarter]Q/[Year] [batch number]

ADVANTAGES

Technobel is a high resistant flexible hose with a polyester inner wall. This inner wall provide the Technobel hose with resistance to a range of chemicals as a complement to the Tricoclair hose.

Thanks to its constituent materials and the quality of its reinforcement, Technobel hose offers minimal distortion under pressure with very good ageing resistance capabilities, as well as good resistance to mechanical strains (impacts, flattening, pressure cycles).

CONNECTORS

Quick connectors, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps. Cap connectors. Swaged fittings can be used if they do not damage the hose (particular care must be taken to avoid damaging the thermoplastic lining.

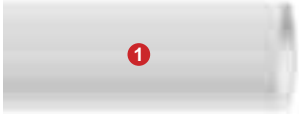
CHEMICAL RESISTANCE

See table pages 102 to 105 column A for outer layer, col. D for inner layer.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Black 25 m	Black 50 m
6	+/- 0,3	11	+/- 0,3	2,5	89	60	20	42		135749
8	+/- 0,5	14	+/- 0,5	3	137	60	20	56		147885
9	+/- 0,5	15	+/- 0,5	3	150	60	20	65		135794
10	+/- 0,5	16	+/- 0,5	3	162	60	20	75	135800	147898
12,7	+/- 0,6	19,5	+/- 0,6	3,4	228	60	20	90	135826	147930
16	+/- 0,6	23,5	+/- 0,6	3,75	307	60	20	160	135842	135855
19	+/- 0,8	27,5	+/- 0,8	4,25	412	60	20	200	135868	147901
25	+/- 0,8	34,5	+/- 0,8	4,75	590	55	18	250	135884	147914
30	+/- 0,8	40,5	+/- 0,8	5,25	774	40	13	300		135913
32	+/-0,8	44	+/-0,8	6	955	40	13	320		126142
40	+/- 1,0	52	+/- 1,0	6	1154	30	10	400	147927	
50	+/- 1,0	64	+/- 1,0	7	1673	30	10	500	135984	

PTFE TUBES

+250
-250 °C



1 Polytetrafluoroethylene

Thin-walled tubes made of Polytetrafluoroethylene.

APPLICATIONS
- For the transfer of chemical products
- For the passage of fluids in high-temperature conditions.

SECTORS OF ACTIVITY
- Industry
- Laboratories

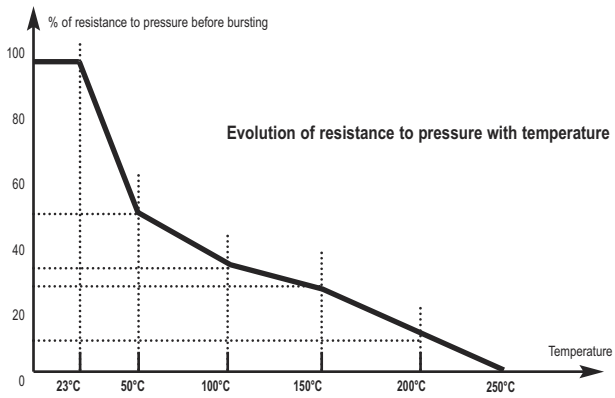
Marking: Without marking

ADVANTAGES
PTFE tubes are compatible with most chemicals. Fluoropolymers give the tubes excellent dimensional stability over a wide temperature range from -250 to +250°C. They are also non-flammable and electrically insulating.
The material with the lowest coefficient of friction, PTFE has remarkable anti-stick properties and is easy to clean. PTFE tubes have a perfectly smooth inner wall. They are white and slightly translucent.

CONNECTORS
It is best to use PTFE tubes with compression fittings usually used with nylon tube.

CHEMICAL RESISTANCE
PTFE is the polymer which is compatible with the greatest number of chemicals. Acids, bases, hydrocarbons, numerous solvents, it is resistant to virtually all aggressive liquids.
See table pages 102 to 105 column H.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Translucent white		
									25 m	50 m	100 m
2	+/- 0,16	4	+/- 0,16	1	20	60	20	32	169412		
4	+/- 0,20	6	+/- 0,20	1	34	40	13	72	169457	169456	169473
5	+/- 0,25	8	+/- 0,25	1,5	66	36	12	85	169544		
6	+/- 0,25	8	+/- 0,25	1	47	30	10	128	169486	169488	169499
8	+/- 0,30	10	+/- 0,30	1	61	24	8	200	169502	169514	169515
10	+/- 0,30	12	+/- 0,30	1	74	20	6	288	169528	169530	169531



VITRYL, TUBLAIT, PROFILINE AQUA PLUS, WASHING GUNS, THERMOCLEAN 100 & FLEXIBLES, THERMOCLEAN AL 20, SUPER THERMOCLEAN 40	FOOD INDUSTRY, GUNS & HOSES FOR FOOD CLEANING
TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

FOOD INDUSTRY

VITRYL®

+200
-50 °C

PHTHALATE FREE PHTHALATES < 0,1 %

(EU) N° 10/2011

Simulants A, B, C, D1

- ✓ fruit juices
- ✓ alcohols
- ✓ wines
- ✓ milk

1 Transparent food-grade silicone.

Food-grade quality monolayer tube in transparent silicone (60 shA).

APPLICATIONS

Food liquids and aqueous solutions transfer including acids and bases (please consult us)

SECTORS OF ACTIVITY

- Food Processing
- Medical (non invasive equipment)
- Laboratories
- Peristaltic pumps

Marking: Without marking

ADVANTAGES

Silicone is a flexible material which is resistant to high temperatures. Vitryl can be used up to 240°C and resists repeated sterilization cycles. Vitryl can also be used at low temperatures and is suitable for foodstuff and alcohol transfer up to 50%.

CONNECTORS

Barbed connectors with band, worm drive, screw or 'O' type clamps. Crimping is unsuitable. It can be fitted to smooth tubes with clamps.

CHEMICAL RESISTANCE

See table pages 102 to 105 column G.

mm	± mm	mm	mm	± mm	g/m	Transparent 25 m
3	+/- 0,2	5	1	+/- 0,15	15	189782
3	+/- 0,2	6	1,5	+/- 0,15	24	169283
3	+/- 0,2	7	2	+/- 0,15	37	169022
4	+/- 0,25	6	1	+/- 0,15	18	189795
4	+/- 0,25	7	1,5	+/- 0,15	30	169309
4	+/- 0,25	8	2	+/- 0,15	44	169035
5	+/- 0,35	8	1,5	+/- 0,2	36	189801
6	+/- 0,35	9	1,5	+/- 0,25	41	189814
6	+/- 0,35	10	2	+/- 0,25	58	169080
6	+/- 0,35	12	3	+/- 0,25	98	169093
7	+/- 0,4	11	2	+/- 0,25	66	169409
8	+/- 0,4	11	1,5	+/- 0,25	52	169425
8	+/- 0,4	12	2	+/- 0,25	73	189830
8	+/- 0,4	14	3	+/- 0,25	120	169112
10	+/- 0,4	14	2	+/- 0,25	87	189843
10	+/- 0,4	16	3	+/- 0,25	132	169125
12	+/- 0,5	16	2	+/- 0,3	102	169154
12	+/- 0,5	17	2,5	+/- 0,3	132	189856
15	+/- 0,5	21	3	+/- 0,3	197	189869
20	+/- 0,7	27	3,5	+/- 0,36	300	189885

B.P.
48 bar

PROFILINE-AQUA PLUS

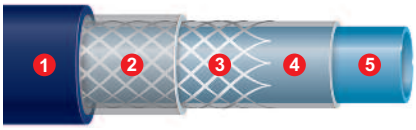
+50
-15
°C

PHTHALATE FREE
PHTHALATES < 0,1 %

(EU) N° 10/2011

Simulants A, B, C, D1, D2

- ✓ fruit juices
- ✓ wines
- ✓ alcohols
- ✓ milk
- ✓ food oils



1. Cover in PE soft, blue and food quality
2. 4. Intermediate layers in PE soft, white and food quality
3. Textile reinforcement
5. Inner layer in high density PE

APPLICATIONS

- Transfer of food liquids
- Drinking water (Germany)
- Chemicals, paints and solvents
  (see table pages 102 to 105 col. E for inner layer)

SECTORS OF ACTIVITY

- Food industry
- Fairs
- Exhibitions
- Chemical industry

Multi-layer hose for transfer of chemicals and food liquids.
Five layer hose with polyester reinforcement and polyethylene inner layer.

New certificates

Instruction before use :
It is recommended to flush the hose before the first use

Marking: PROFILINE-AQUA Ø inn 16 BAR KTW "A" und DVGW-W270 geprüfter Trinkwasserschlauch (EU) N° 10/2011 [batch number]

ADVANTAGES

The lining of Profiline Aqua Plus, in PEHD, is perfect for most food liquids. That is why this hose was approved KTW-Empfehlung (Drinking water Germany) by the Hygiene Institute from Ruhr. Besides, it is inert chemically, which makes Profiline Aqua Plus a hose suitable for the transfer of compatible chemicals. The special structure PVC ensures a flexible resistant hose.

CONNECTORS

Swaged, barbed or serrated connectors. Band, worm drive, screw or 'O' type clamps.
Crimping is possible with non-cutting connectors.

CHEMICAL RESISTANCE

See table pages 102 to 105 column E for the inner layer, and column I for the cover.
Profiline-Aqua Plus is compatible with a wide range of aggressive chemical products (acids, alkalis, hydrocarbons, solvents). There are, however, known incompatibilities and we do not advise Profiline-Aqua Plus to be used with the following products:
Sulphuric acid smoking or bichromated, bromide chemicals, chlor-based chemicals, chromosulfonic acid, sulfonic chloride nitric acid (> 50%), gaseous flour, liquid phosgene, butylphenone, oil of camphor, sulphur trioxyde.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Blue 50 m
10	+/- 0,5	15	+/- 0,5	2,5	87	48	16	70	155240
13	+/- 0,5	20	+/- 0,5	3,5	161	48	16	140	155249
19	+/- 0,7	27	+/- 0,7	4	254	48	16	215	155256
25	+/- 0,8	34,5	+/- 0,8	4,75	394	48	16	295	155270

THERMOCLEAN® 100

+100
-15 °C

Simulants A, B, C

APPLICATIONS
- Industrial cleaning
- Carrying foodstuffs

SECTORS OF ACTIVITY
- Food Processing
- Dairy industry
- Shopkeepers, Craftsmen
- Slaughterhouses
- Industrial uses

1. Blue Soft temperature, non-staining, greaseproof, detergent and disinfectant resistant PVC food-grade lining.
2 4. High adherence food-grade layer
3. High tenacity polyester textile reinforcement
5. White Soft temperature detergent and disinfectant resistant PVC food-grade inner tube

New generation tube for washing up to 100°C continuously.

Five layer design based on high thermal resistance food-grade materials and high adherence system between the inner tube and the outer layers. Resists grease and conventional detergent and disinfectant solutions. With an isolating thermal lining the risk of being scolded is reduced.

Maximum working pressure
15 bar at 100°C

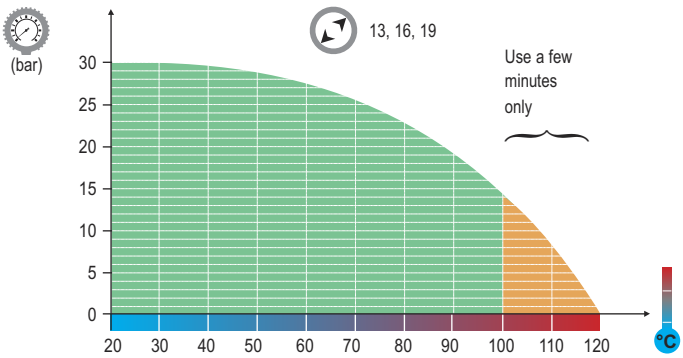
Marking: THERMOCLEAN 100 (EU) N° 10/2011 ALIMENTAIRE Ø inn [WP] bar / 100°C [batch number]

ADVANTAGES
New Thermoclean 100 is more flexible and more resistant at high temperature. It is a safety tube: it stands thermal shocks, hammering, cyclic pressure and deformation particularly well up to 100°C continuously and even up to 120°C intermittently as a recyclable and non-staining material that is resistant to several agri-food industry cleaning solutions, it is the new standard for professional cleaning.

CONNECTORS
Thermoclean 100 can be equipped with all types of connectors assembled with clamps. Caution: please make sure that the following precautions are followed:
- The connectors should be safe to handle; the tail should have a length that is at least twice that of the inside diameter.
- In the case of clamp fixation, it is recommended that two clamps be used and that they be retightened after first use.
- Crimping is the most adequate solution (please consult us).

CHEMICAL RESISTANCE
See table pages 102 to 105 column B.

mm	± mm	mm	± mm	mm	g/m	20°C	100°C	20°C	100°C	mm	Blue 20 m	Blue 40 m
13	+/- 0,6	22	+/- 1,0	4,5	306	90	45	30	15	80	145571	145584
16	+/- 0,8	25	+/- 1,0	4,5	358	90	45	30	15	95	145655	145668
19	+/- 0,9	28	+/- 1,25	4,5	408	90	45	30	15	115	145671	145684
25	+/- 1,0	34	+/- 1,25	4,5	513	78	39	26	13	150	145597	145697



Assemblies

Thermoclean 100

The Thermoclean 100 is very flexible and resistant to high temperature.
It is recyclable, non-staining and resistant to several detergents and disinfectants. Due to its construction of food-grade PVC, it is the ideal choice for cleaning in the agri-food industry. It is the new standard for professional cleaning. The hose is equipped with a male and a female swivel fitting, for easy assembly. The Thermoclean 100 will still be available also in coils of 20m and 40m.

Safety factor 3
for liquids under recommended working pressures

Isolating walls minimizing the risk of burning

Pressure resistance tested in 5000 cycles in 100°C

Traction resistance of fitted hose tested
at minimum 200 kg

The fittings are in Inox 316L.
Their traceability is secured by
3 distinct markings:

The green label certifies that the 2 fittings have been pressed. Pressing number + date.

The fittings are marked with the production serial number

The sleeves are marked with the Tricoflex logo

Available dimensions and corresponding article codes:

Thermoclean 100 assemblies		
hose (mm)	Fittings 1 male + 1 female stainless steel	20 m
13	1/2" BSP inox 316L	145586
16	1/2" BSP inox 316L	145658
19	3/4" BSP inox 316L	145673

ADVANTAGES
- Cycled pressure resistance tested : 5 000 cycles
- Traction resistance > 200 daN
- Full traceability on crimping
- Traceability on ferrules and fittings

FITTINGS

Fitting male & sleeve (Inox 316 L)

hose (mm)	X (mm) Crimping diameter	Box (10 pc + 10 pc)
13	23,2 +/- 0,2	059000
16	26,2 +/- 0,2	059002
19	29,7 +/- 0,2	059004

Fitting female + sleeve (Inox 316 L)

hose (mm)	X (mm) Crimping diameter	Box (10 pc + 10 pc)
13	23,2 +/- 0,2	059001
16	26,2 +/- 0,2	059003
19	29,7 +/- 0,2	059005

THERMOCLEAN® AL 20

+70
-15
°C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C

1. Light blue cover in soft, non-staining, greaseproof, detergent and disinfectant resistant food grade PVC
2. Adhesion layer in food grade soft PVC
3. Polyester fibre reinforcement
4. Adhesion layer in food grade soft PVC
5. White soft PVC, food grade, resistant to detergents and disinfectants

APPLICATIONS

- Industrial cleaning in industry and food industry

SECTORS OF ACTIVITY

- Food processing industries (dairies,slaughter-houses, etc)
- Local communities (canteens, refectories, kitchens…)
- Shopkeepers (butcher's,fish shops, markets…)

Hot water cleaning hose for medium pressure (20 bar to 70°C).

Four layer structure. Non-staining blue outer cover with high resistance polyester fibre reinforcement.
Special intermediate adhesive layer and white inner layer with high temperature performance.

Marking: THERMOCLEAN AL 20 (EU) N° 10/2011 20 bar / 70°C [year of fabrication] [batch number]

ADVANTAGES

Material properties used to manufacture Thermoclean AL 20 make it a high performance, safe and reliable hose capable to withstand heavy duty applications:

- high temperature performance (up to 70°C under 20 bar continuously, peaks possible up to 80°C);
- four highly flexible polymer components provide excellent handling;
- non-staining blue outer cover is resistant to oils, grease and detergents;
- food-grade quality.

CONNECTORS

Barbed connectors with two O clips (O clips should be recrimped after first use).
Swaged connectors with ferrules is possible.

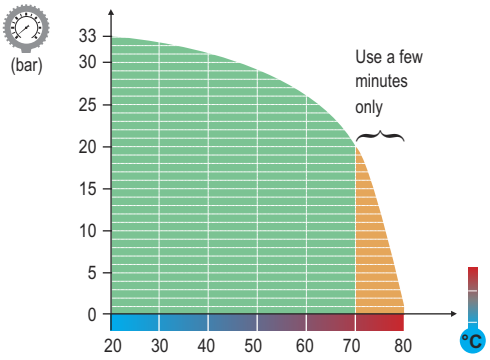
RECOMMENDATION

To ensure a better connection, we recommend assembly after the hose end has been put in hot water at 60°C for 30 seconds.

CHEMICAL RESISTANCE

See table pages 102 to 105 column B.

mm	± mm	mm	± mm	mm	g/m	20°C	70°C	20°C	70°C	mm	Blue 25 m	Blue 100 m
12	+/- 0,6	20	+/- 0,6	4	236	100	60	33	20	108	100236	100237
16	+/- 0,6	24	+/- 0,6	4	311	100	60	33	20	144	100268	
19	+/- 0,8	28	+/- 0,8	4,5	409	100	60	33	20	171	100284	



SUPER THERMOCLEAN® 40

+70 / -10 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C

1. Blue cover in flexible, non-staining, greaseproof, detergent and disinfectant resistant food grade PVC
2, 4. Double polyester reinforcing
3, 5. Intermediary layers in flexible PVC
6. Inner surface in flexible grey PVC

APPLICATIONS
- Industrial cleaning

SECTORS OF ACTIVITY
- Dairy industry
- Communities
- Shopkeepers, Craftsmen
- Slaughterhouses
- Industrial uses

Average pressure industrial washing hose (40 bar at 70°C).

Six-layer design with double polyester fibre reinforcing.

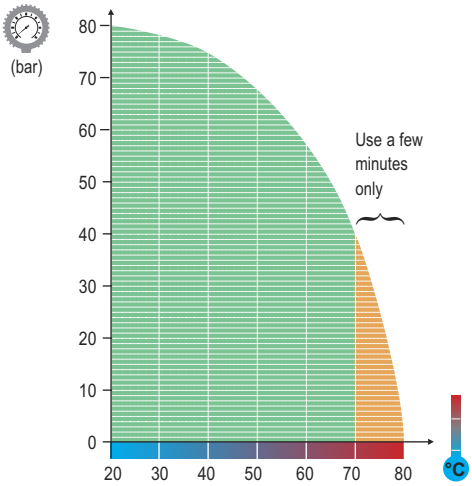
Marking: SUPER THERMOCLEAN 40 BAR / 70°C (EU) N° 10/2011 [year of fabrication] [batch number]

ADVANTAGES
Super material properties of Thermoclean 40 make it a high-performance, safe and reliable hose capable of meeting severe conditions:
- exceptional temperature performance (up to 70°C under 40 bar continuously, peaks possible up to 80°C);
- six highly flexible layers provide excellent handling;
- non-staining blue outer surface is resistant to oily products and detergents;
- excellent kinking resistance.

CONNECTORS
Barbed connectors with 'O' type clips (retighten the clips after first high temperature use).
Crimping is possible under certain conditions (please consult us).

CHEMICAL RESISTANCE
See table pages 102 to 105 column B.

mm	± mm	mm	± mm	mm	g/m	20°C	70°C	20°C	70°C	mm	Blue		
											25 m	50 m	100 m
12	+/- 0,6	22	+/- 0,8	5	335	240	120	80	40	84	100758	100761	100774



WASHING GUN LOW PRESSURE

+80 -15 °C

This low pressure washing gun is designed for all your industrial cleaning operations buildings, agribusiness laboratories, equipment, machines, vehicles...
The automatic shut off trigger enables considerable reduction in water consumption. According to the pressure, you exert on the trigger to adjust the power. You can vary from a wide spray to a powerful concentrated jet. It is sturdy, maintenance free, made from brass and stainless steel, covered with a EPDM coating to provide protection against shocks, chemical detergents and heat.

g	bar	T° Max	L/mn/bar	Ref
840	25	80°C	25 / 5	059100

It is mandatory to wear heat-resistant and waterproof gloves when the fluid temperature exceeds 80°C.

Fittings: BSP 1/2" female.

POLYPROPYLENE WATER GUN LOW PRESSURE

+50 -15 °C

Easy to handle, low pressure water gun, designed to cope with the toughest industrial cleaning operations. The system for adjusting the water-jet/spray pattern is independent of the trigger, allowing precise control of water consumption.
Very easy to operate, ultra-light and with a stainless-steel swivel connector-coupling to allow the free rotation of the gun on the hose. Very robust, with a polypropylene internal operating structure with fibreglass reinforcements. The trigger is protected to reduce the risk of damage if dropped. The protective cover is fully enclosed to avoid build up of dirt and grime. Stainless-steel water inlet connector, body and shut-off spring: joints/valve seals in NBR/EPDM
Connector: BSP 1/2" female.

Stainless-steel swivel connector

Jet/spray control knob

g	bar	T° Max	Ref
420	12	50°C	059107

FOOD INDUSTRY

TUBLAIT®

+60
-30 °C

PHTHALATES < 0,1 %

(EU) N° 10/2011

Simulants A, B, C, D1

- ✓ fruit juices
- ✓ alcohols
- ✓ wines
- ✓ milk

APPLICATIONS
- Milk circulation
- Suction

SECTORS OF ACTIVITY
- Dairy operations: processing room equipment and milking equipment
- Laboratories

1 Food-grade transparent tube

Un-reinforced food-grade flexible tube.
Monolayer design in food-grade PVC, blue tint. Smooth inner and outer surfaces.

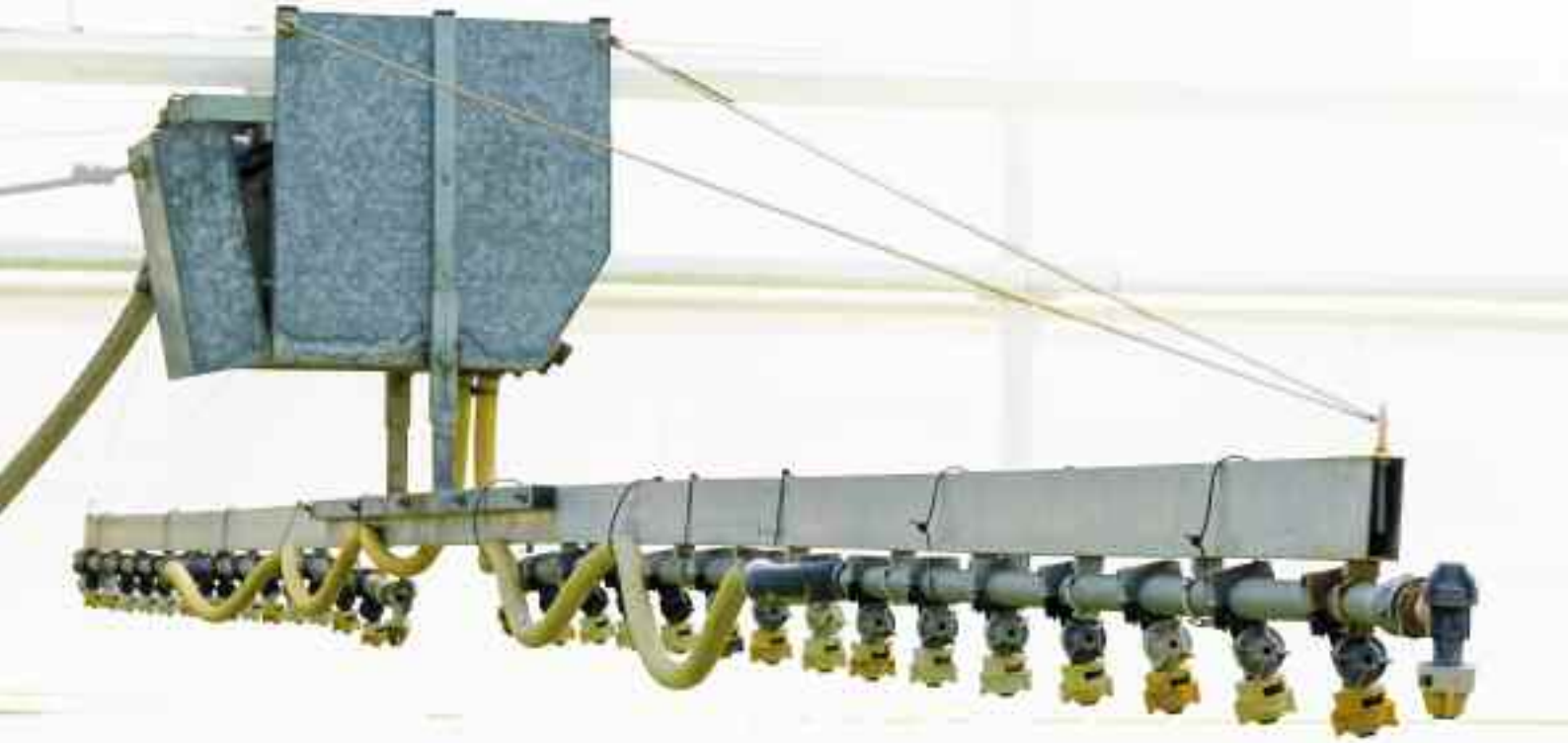
Marking: TUBLAIT (EU) N° 10/2011 [batch number]

ADVANTAGES
Tublait hose has been specially designed for milk circulation. Suitable for contact with food products and excellent mechanical resistance to pulsing. Tublait is the hose for dairies and milk processing industries. It can withstand a 50 kPa depression. Even in cold weather, Tublait maintains its excellent flexibility. It is easy to bend and transparent, allowing liquid flow to be observed.
It is easily cleaned with hot water up to 80°C peaks. Its excellent vacuum resistance allows use as a vacuum tube in a laboratories.

CONNECTORS
Usual connections in processing rooms.
Barbed connectors with band, worm drive, screw or 'O' type clamps.
Crimping unsuitable.
Easily assembled on a smooth tube with clamps.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	± mm	mm	± mm	mm	g/m	bar	Transparent 25 m
14	+/- 0,5	24	+/- 0,6	5	342	119	072235
16	+/- 0,5	26	+/- 0,6	5	378	136	072409

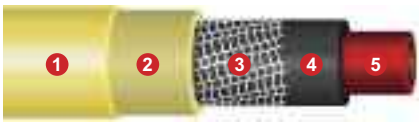


TRICOFLEX PERFORMANCE, TRICOFLEX, TRICOFLEX R, TRICOFLEX YACHTING, RUBVYL, IRRIFLEX, PRIMABEL, TRICOFLAT, SUPER TRICOFLAT	WATER HOSES
T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

B.P.
20/38 bar

TRICOFLEX® PERFORMANCE

+60
-20
°C



1. Soft PVC coating
2. Intermediate layer of flexible PVC yellow
3. Textile knitted reinforcement TNT
4. Intermediate layer of soft black PVC
5. Red flexible PVC

Five-layer knit water transport hose for professional use.

APPLICATIONS

- Watering
- Irrigation
- Water supply and delivery

SECTORS OF ACTIVITY

- Farms
- Vegetable growers, horticulture
- Water supply and delivery in industry, construction sites and road works

Marking: TRICOFLEX PERFORMANCE Tricoflex Non Torsion Technology [batch number]

ADVANTAGES

TRICOFLEX Performance combines high resistance and exceptional flexibility thanks to a multi-layered structure and an exclusive knit technique.
Resistant to abrasion, bad weather conditions, UV, crushing, and repeated pressure cycles, with a low curve radius preventing folding: these intrinsic qualities make the difference every day and for the long term.
TRICOFLEX Performance even has a red interior wall specially formulated to improve flow and resisted to polluted water, for a longer life span even in the case of especially tough use.

CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	mm	mm	bar	bar	mm	Yellow	
						25 m	50 m
12,5	18,2	2,85	38	15	110	110000	110001
15	20,8	2,90	35	14	120	110002	110003
19	25,8	3,40	30	12	160	110004	110005
25	32,4	3,70	20	8	200	110006	110007

TRICOFLEX®

+60
-15 °C

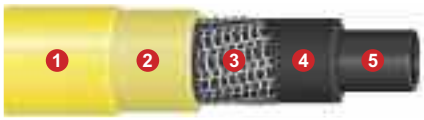
PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS

- Watering
- Irrigation
- Water supply and delivery

SECTORS OF ACTIVITY

- Farms
- Vegetable growers, horticulture
- Water supply and delivery in industry, construction sites and road works



1. Yellow or green PVC covering
2. Intermediate layer of flexible PVC yellow
3. Textile knitted reinforcement TNT
4. Intermediate layer of soft black PVC
5. Smooth black inner tube

Flexible multilayer hose.

Exterior covering in ultra UV resistant PVC. With woven polyester fibre reinforcement and two-layer smooth lining.

Marking: TRICOFLEX Soft & Flex Technology Tricoflex Non Torsion Made in France [batch number]

ADVANTAGES

The multi-layer design, made of an exclusive woven fibre and a double core layer, ensures that Tricoflex is highly flexible for easy handling, with excellent resistance to repeated bending, crushing and pulling as well as minor deformation under pressure.

In addition, the lining is extremely smooth, thereby maintaining even flow. Especially thick and made of high quality materials, Tricoflex offers remarkable aging resistance with exceptional preservation of flexibility. Its exterior yellow PVC covering gives it good protection against abrasion and UV.

CONNECTORS

Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

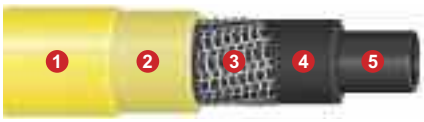
CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	mm	mm	bar	bar	mm	Yellow			Green	
						25 m	50 m	100 m	25 m	50 m
12,5	17,6	2,55	25	10	125	117135	117151	117016		
15	20,5	2,75	25	10	135	116861	116874	054426	117045	117051
19	25,5	3,25	23	9	180	116887	051546	054437	142916	051570
25	32,3	3,65	20	8	240	048273	048374	048363	048284	048385
30	39	4,50	20	8	300	048508	048510	048497		
35	45	5,00	20	8	350	048565	048554	048587		
40	51	5,50	20	8	400	048442	048453	048655		
50	63	6,50	20	8	500	048306	048341			

TRICOFLEX® R

+60
-15 °C



1. Yellow PVC covering
2. Intermediate layer of flexible PVC yellow
3. Textile knitted reinforcement TNT
4. Intermediate layer of soft black PVC
5. Smooth black innertube

Flexible multi-layer hose.

Exterior covering in ultra UV resistant PVC. With woven polyester fibre reinforcement and two-layer smooth black lining.

APPLICATIONS

- Automatic sprinkler installations in greenhouses (mounted on motorized carts)
- Irrigation:
  - · water transfer and supply
  - · main supply of micro-irrigation networks

SECTORS OF ACTIVITY

- Farms
- Horticulture
- Water supply in industry and on construction sites and road works

Marking: TRICOFLEX R Tricoflex Non Torsion Technology [batch number]

ADVANTAGES

The multi-layer design ensures that Tricoflex R is both highly flexible for easy handling and has an excellent resistance to repeated bending, crushing and tensile stress.

A greatly resistant woven fibre and modified materials compared to Tricoflex make Tricoflex R a product particularly well suited to gantry sprinkler equipment in greenhouses, with increased resistance to tensile forces. In addition, the inner surface is extremely smooth, thereby maintaining an even flow.

Especially thick and made of high quality materials, Tricoflex R offers remarkable aging resistance with exceptional preservation of flexibility.

Its exterior yellow PVC covering gives it good protection against abrasion and UV rays.

CONNECTORS

Connectors with band, screw or 'O' type clamps.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	mm	mm	bar	bar	mm	Yellow	
						50 m	100 m
19	25,5	3,25	24	8	250	116568	116542
25	32,5	3,75	24	8	320	048671	048697

TRICOFLEX® YACHTING

+60
-15 °C

PHTHALATES < 0,1 %

APPLICATIONS
- Water supply and delivery

SECTORS OF ACTIVITY
- Yachting
- Swimming pools

1. White PVC flexible liner
2. Intermediate layers of foam PVC
3. Knitted fibre reinforcement
4. Intermediate layers of foam PVC
5. Blue inner tube

5-layer multipurpose hose with knitted reinforcement.
Exterior covering in PVC. With woven polyester fibre reinforcement and two-layer smooth lining.

Marking: TRICOFLEX YACHTING Soft & Flex Technology

ADVANTAGES
Flexible and strong. White outer layer makes it particularly unobstrusive on boats and around swimming pools.

CONNECTORS
Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	mm	mm	bar	bar	mm	White			Reel
						15 m	25 m	50 m	80 m
12,5	18,2	2,85	25	10	125	063150			
15	21,1	3,05	25	10	135		063176		063205
19	26	3,50	23	9	180		063218	063263	

WATER

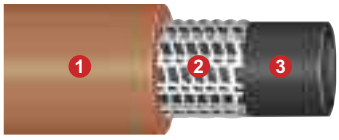
RUBVYL®

+60
-15
°C

PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS
- Watering, water supply

ALL SECTORS OF ACTIVITY



1. Cover in soft Brick red or black PVC
2. Textile knitted reinforcement
3. Black inner tube

Flexible multi-layer hose.

3-layer knitted hose. Light, flexible and resistant, it is recommended for regular and professionnal use.

Marking: No marking.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	mm	bar	bar	mm	Brick red 40 m	Black 50 m
13	2,5	22	8	110	105118	
19	3,0	22	6	190	061031	105234
25	3,25	18	6	250	105150	105250

WATER

IRRIFLEX

Not available for sale in the United Kingdom

+60 / -15 °C

1. Flexible PVC cover yellow with 2 blue stripes
2. Intermediate layer of expanded PVC yellow
3. Knitted textile reinforcement TNT
4. Intermediate layer of expanded PVC black
5. Black smooth soft PVC liner

APPLICATIONS
- Watering
- Irrigation
- Water supply and delivery

SECTORS OF ACTIVITY
- Farms
- Vegetable growers, horticulture
- Water supply and delivery in industry, construction sites and road works

Flexible multi-layer hose.
Structure reinforced with polyester knitting and UV resistant cover.

Marking: IRRIFLEX [batch number]

ADVANTAGES
The Irriflex is a flexible multi-layer hose suitable for everyday professional uses.

CONNECTORS
Connectors with band, screw or 'O' type clamps. Automatic connectors for watering.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	mm	bar	bar	mm	Yellow with blue stripes	
					25 m	50 m
12,5	2,40	23	9	130	110050	110051
15	2,55	23	9	140	110052	110053
19	2,95	20	8	185	110054	110055
25	3,05	20	8	230	110056	110057

WATER

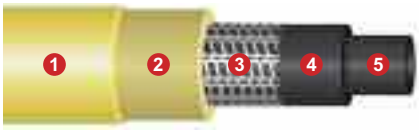
PRIMABEL®

+60
-15 °C

PHTHALATES < 0,1 %

APPLICATIONS
- Watering, water supply

ALL SECTORS OF ACTIVITY



1. Cover in soft yellow PVC
2. Intermediate layer in foamed yellow PVC
3. Textile knitted reinforcement
4. Intermediate layer in foamed black PVC
5. Black inner tube

Flexible multi-layer hose.
5-layer knitted hose with foamed "Soft&Flex" structure.
Light and soft, it is recommended for regular use.

Marking: PRIMABEL Soft & Flex Technology [batch number]

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	mm	bar	bar	mm	Yellow 15 m	Yellow 25 m	Yellow 50 m	Green 25 m	Green 50 m
12,5	2,25	20	8	140		116365	116378	132839	
15	2,05	20	8	160	153805	116381	116394	117802	117799
19	2,40	16	6	200		116400	194255	117828	117757
25	3,00	16	6	255		194268	194271		
30	4,20	16	6	460			194297		

WATER

Flat hoses.
3-layer design in PVC with polyester fibre reinforcement.

Marking: No Marking

TRICOFLAT®

+60
-10 °C

1. Flexible PVC
2. Polyester fibre reinforcement
3. Black flexible PVC inner tube

Standard quality : Blue cover

SUPER TRICOFLAT®

+60
-15 °C

1. Flexible PVC
2. Polyester fibre reinforcement
3. Black flexible PVC inner tube

Heavy duty : Red cover

APPLICATIONS
- Water supply and irrigation

SECTORS OF ACTIVITY
- Farms
- Building trades and road works
- Industry

ADVANTAGES
The polyester fibre reinforcement gives Tricoflat (blue) and Super Tricoflat (red) excellent pressure, tensile and tear resistance. These robust hoses also demonstrate excellent resistance to UV, abrasion and crushing.
The inner and outer layers are made of PVC, whose flexibility provides greater ease of use and handling. Flat storage helps reduce clutter. After use, cleaning is easy, with no need for drying. The perfectly smooth inner surface decreases flow losses.
The bright colors make identification easy.

CONNECTORS
Cam, semi-symmetrical or Storz connectors.
Band collars. In order to avoid damaging the hose during installation of the collars, it is recommended that before tightening, each end be protected with a sleeve that can simply be a 10 cm length taken from the hose itself.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

TRICOFLAT®

mm	± mm	mm	± mm	g/m	bar	bar	daN	Blue 25 m	Blue 50 m	Blue 100 m
25	+/- 1,5	2,2	+/- 0,2	240	30	10	350	140602	140615	
30	+/- 1,5	2,2	+/- 0,2	280	30	10	400	140631	140644	
35	+/- 1,5	2,2	+/- 0,2	300	30	10	500	140005	140016	
40	+/- 1,5	2,2	+/- 0,2	350	30	10	400	140027	140038	140041
45	+/- 1,5	2,2	+/- 0,2	400	30	10	450	140054	140067	
50	+/- 1,5	2,2	+/- 0,2	480	24	8	500	140070	140083	140096
55	+/- 1,5	2,2	+/- 0,2	500	21	7	550	140109	140112	
63	+/- 1,5	2,2	+/- 0,2	540	21	7	630	140125	140138	140141
70	+/- 2,0	2,2	+/- 0,2	620	21	7	700	140154	140167	
75	+/- 2,0	2,4	+/- 0,2	750	21	7	750	140183	140196	140209
80	+/- 2,0	2,4	+/- 0,2	800	21	7	800			140201
90	+/- 2,0	2,4	+/- 0,2	900	21	7	900	140212	140225	
100	+/- 2,0	2,4	+/- 0,2	1050	18	6	1000	140241	140254	140267
150	+/- 2,0	3,0	+/- 0,2	1800	12	4	1500		140283	
200	+/- 2,0	3,0	+/- 0,2	2100	7,5	2,5	2000		140689	

SUPER TRICOFLAT®

mm	± mm	mm	± mm	g/m	bar	bar	daN	Red 25 m	Red 100 m
45	+/- 1,5	2,5	+/- 0,5	480	42	14	450	140325	
50	+/- 1,5	2,5	+/- 0,5	520	36	12	500	140357	140373
70	+/- 2,0	2,8	+/- 0,5	840	36	12	700	140431	
75	+/- 2,0	2,8	+/- 0,5	880	36	12	750	140457	140473
100	+/- 2,0	3,1	+/- 0,5	1300	30	10	1000	140515	
150	+/- 2,0	3,2	+/- 0,5	2000	18	6	1500	140544	

Crédit photo : Pierre Villeneuve

T694, T1947	FIRE-FIGHTING HOSES
RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER	SPIRAL HOSES
DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR	DUCTING HOSES
	CHEMICAL RESISTANCE CHART OF HOSES
	INDEX PRODUCTS BY ARTICLE CODE

FIRE-FIGHTING HOSES

T 1947

+60
-20 °C

PHTHALATES < 0,1 % PHTHALATE FREE

T1947:2014 hoses comply with EN 1947:2014 standard (type A class 2).

PAR AFNOR CERTIFICATION NF

NF 377
148.TSR.07
www.marque-nf.com

1. Cover in red soft PVC
2. Polyester reinforcement
3. Inner layer in black soft PVC

Semi-rigid hoses for fire-fighting trucks.

3-layer design according to EN 1947 type A class 2, with polyester reinforcement.

Marking:
- MATERIELS SAPEURS POMPIERS 148.TSR.07 TUYAU SEMI-RIGIDE DN 25 CATEGORIE 1 TYPE A2 VERSION S.EN 1947:2014. PN 15 BAR [Trimestre/année] [N° lot]
- MATERIELS SAPEURS POMPIERS 148.TSR.07 TUYAU SEMI-RIGIDE DN 25 CATEGORIE 2 TYPE A2. EN 1947:2014. PN 40 BAR [Trimestre/année] [N° lot]

ADVANTAGES

Light and flexible, T1947 hoses withstand easily shocks and crushing. It coils well without flattening on standard hose reels.

CONNECTORS

Usual connections for fire-fighting hoses.

Class	mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Red 20 m	Red 40 m
1	25,5	+/- 0,5	33,3	+/- 0,4	3,9	466	45	15	440	125746	125865
2	25,5	+/- 0,5	34,2	+/- 0,4	4,4	519	100	40	480	125759	

FIRE-FIGHTING HOSES

T 694

+60
-20 °C

PHTHALATES < 0,1 % PHTHALATE FREE

T 694 hose complies with NF EN 694:2014 standard (type A class 2).

PAR AFNOR CERTIFICATION NF

NF 021
02/01
www.marque-nf.com

1. Cover in black or red soft PVC
2. Polyester reinforcement
3. Inner layer in black soft PVC

Hose for fire-fighting reels - Black matte or red color.
3-layer hose according to NF EN 694:2014 (type A class 2), with polyester reinforcement.

Marking: - EN 694:2014 - A - 2 - Ø inn - [MWP] - [Quarter]Q/[Year] - NF - 02 [batch number]

ADVANTAGES

Its conception in very resistant materials allows T694 to easily withstand shocks and crushing.
It coils well without flattening on standard hose reels. Thanks to the UV and abrasion resistant cover, T694 has excellent anti-aging properties.

CONNECTORS

Usual connections for fire-fighting hoses.

mm	± mm	mm	± mm	mm	g/m	bar	bar	mm	Black 30 m	Red 30 m
19	+/-0,6	25	+/-0,6	3	285	42	12	220	145336	145430
25	+/-0,8	32	+/-0,8	3,5	433	42	12	240	145378	145352
33	+/-1,0	41,5	+/-1,0	4,25	714	25	7	280	144672	

RANGE SPIRABEL : LD, SI, SNT-S, SNT-A, SISE, GMDS, MDSF AL, MDSE, MDSO, VENDANGES, BALNÉO, PUA2, SPIRE ACIER

SPIRAL HOSES

DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR

DUCTING HOSES

CHEMICAL RESISTANCE CHART OF HOSES

INDEX PRODUCTS BY ARTICLE CODE

SUCTION AND DELIVERY ~ MULTIPURPOSE

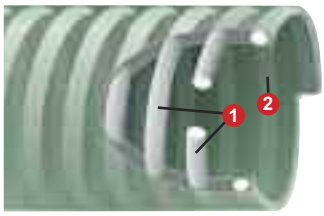
SPIRABEL® L.D.

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS
- Suction and delivery light duty
- Watering
- Small pumps
- Seed drills

SECTORS OF ACTIVITY
- Agriculture
- Industry



1. White spiral in rigid and shock-proof PVC
2. Wall in soft and transparent PVC. Inner and outer smooth

Flexible hose reinforced with a white shock-proof PVC spiral.
Soft and transparent PVC wall. Light duty.

Marking: Spirabel LD Ø inn. [batch number]

ADVANTAGES
Spirabel LD is a very light, flexible and economic hose. Its inner wall is smooth to reduce flow losses. Its transparency allows observation of transferred products.

CONNECTORS
Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

Warning
Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Transparent green wall		
								25 m	30 m	50 m
20	+/- 1,0	2,4	220	18	6	600	80			137315
25	+/- 1,0	2,4	270	15	5	500	105			137331
32	+/- 1,0	2,5	350	15	5	500	135			137357
38	+/- 0,6	2,8	460	15	5	500	160		137371	137373
40	+/- 0,6	2,9	500	15	5	500	180	134376		
50	+/- 0,6	3,3	710	12	4	500	230		137413	137415
63	+/- 1,0	3,5	870	12	4	500	265			134405
75	+/- 1,0	3,8	1000	12	4	500	315	134421		
102	+/- 1,0	4,2	1870	9	3	500	428	134489		

SUCTION AND DELIVERY ~ MULTIPURPOSE

SPIRABEL® S.I.

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C

- ✓ fruit juices
- ✓ wines

APPLICATIONS

- Suction and delivery of various liquids
- Irrigation, pumps
- Seed drills
- Transfer of low abrasive powders

SECTORS OF ACTIVITY

Industry, building, agriculture

1. White spiral in rigid and shock-proof PVC
2. Wall in soft and transparent PVC

Multipurpose hose.

Reinforced with a white, rigid and shock-proof PVC spiral in a transparent soft PVC wall.

Marking: SPIRABEL S.I. Ø inn (EU) N° 10/2011 SIM A, B, C [batch number]

ADVANTAGES

Spirabel S.I. is a resistant, flexible and economic hose. Its very smooth internal wall reduces the flow losses. The smooth outside surface (up to diam 60) makes the assembly of fittings with any type of collar easier. The transparent wall allows observation of transferred products.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

We recommend to use SPIRABEL MDSO or SPIRABEL PUA2 for the transfer of hydrocarbons.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Transparent 25 m	Transparent 50 m
20	+/- 0,6	2,4	230	18	6	700	60		191664
25	+/- 0,6	2,5	280	18	6	600	75	033377	033300
30	+/- 0,6	2,5	340	18	6	600	90	033388	033311
32	+/- 0,6	2,5	360	16	5	600	95	032642	032655
35	+/- 0,6	3,0	455	15	5	500	105	032658	
38	+/- 0,6	2,8	480	15	5	500	115	032661	
40	+/- 0,6	2,9	500	15	5	500	120	033390	033322
45	+/- 0,6	3,1	595	15	5	500	135	033393	
50	+/- 0,6	3,2	720	15	5	500	150	033401	033333
55	+/- 0,6	3,3	755	15	5	500	165	033405	
60	+/- 0,6	3,2	840	15	5	500	180		033491
80	+/- 0,6	4,5	1310	9	3	500	320	033538	
90	+/- 0,6	4,8	1620	9	3	500	360	033524	
102	+/- 0,6	5,2	2000	9	3	500	550	033366	

SPIRABEL® S.N.T.-S

+60
-15 °C

PHTHALATE FREE < 0,1 % PHTHALATES

(EU) N° 10/2011

Simulants A, B, C, D1

- ✓ fruit juices
- ✓ alcohols
- ✓ wines
- ✓ milk

APPLICATIONS

- Suction and delivery of various liquids
- Irrigation, pumps
- Seed drills
- Transfer of food liquids
- Transfer of low abrasive powders (Non-greasy)

SECTORS OF ACTIVITY

- Industry
- Agriculture and food industry
- Building

1. White spiral in rigid and shock-proof PVC
2. Wall in soft and transparent PVC

Smooth inner wall.
Smooth outer wall to ø 70mm

Multipurpose food quality hoses.

Reinforced with a white, rigid and shock-proof PVC spiral in a transparent soft PVC wall.

Marking: SPIRABEL SNT-S Ø inn (EU) N° 10/2011 [batch number]

ADVANTAGES

Spirabel S.N.T.-S is light, very flexible and resistant. Its very smooth inner wall assures low flow losses. Its outer wall is also smooth which helps fitting connection by using band collars and reduces abrasive damage. Its transparency allows observation of transferred products. Spirabel S.N.T.-S can be used to transfer food liquids and even alcohol up to 50% at 60°C.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with band collars thanks to the smooth cover. We recommend checking before assembly that the fittings cannot harm the inner wall.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Transparent 25 m	Transparent 50 m
20	+/- 1,0	2,6	242	21	7	800	60	167124	167137
25	+/- 1,0	2,7	300	21	7	800	75	167140	167153
30	+/- 1,0	2,7	359	18	6	800	90	167166	167172
32	+/- 1,0	2,8	387	18	6	800	95	167185	167198
35	+/- 1,0	3,0	475	18	6	800	105	167201	167214
38	+/- 1,0	3,0	504	18	6	800	115	167227	167230
40	+/- 1,0	3,0	523	18	6	800	120	167243	167256
45	+/- 1,0	3,1	614	15	5	800	135	167269	167272
50	+/- 1,0	3,3	736	15	5	800	150	167285	167298
55	+/- 1,0	3,3	784	15	5	800	165	167301	167314
60	+/- 0,6	3,3	873	15	5	800	180	167662	033873
63	+/- 1,0	3,3	960	15	5	800	190	167327	167330
70	+/- 0,6	3,4	1040	12	4	700	210	167675	
75	+/- 1,0	4,8	1200	12	3	700	300	033243	033254
80	+/- 1,0	5,3	1350	9	3	700	320	033915	
90	+/- 1,0	6,1	1650	9	3	700	360	033906	
100	+/- 1,0	6,1	1970	9	3	700	500	033928	
110	+/- 1,0	6,1	2310	9	3	600	550	033931	
120	+/- 1,0	6,3	2540	9	3	600	600	033944	
151	+/- 1,0	6,3	4200	9	3	600	755	148913	

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Warning

We recommend to use SPIRABEL MDSO or SPIRABEL PUA2 for the transfer of hydrocarbons.

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

SPIRABEL® S.N.T. - A

+60
-15 °C

PHTHALATE FREE
PHTHALATES < 0,1 %

(EU) N° 10/2011

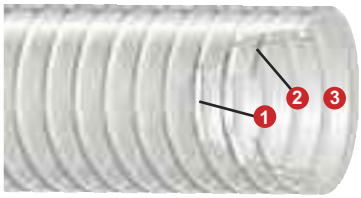
Spirabel SNT-A suitable for dried food products only.

APPLICATIONS

- Suction and delivery of low abrasive powders
- Transfer of grains
- Suction of plastic compounds in granules or powders
- Transfer of liquids

SECTORS OF ACTIVITY

- Food industry
- Agriculture
- Transformation of plastics



1. White spiral in rigid PVC
2. Conductive copper wire
3. Wall in soft and transparent PVC

Hose with a rigid spiral and a conductive copper wire.
Both spiral and wire are embedded in a transparent soft PVC wall.

Marking: [batch number] Ø inn

ADVANTAGES

Thanks to its rigid spiral, Spirabel S.N.T.-A is both resistant to vacuum and crushing. It can withstand repeated flexing and its transparency allows observation of transferred products. This hose should be used where there is a risk of electrostatic charges from the abrasion on the floor.
Spirabel S.N.T.-A smooth inner wall assures low flow losses, avoids retention zones and helps the cleaning.

CONNECTORS

Symmetrical connectors (Guillemin or Storz) with wire collars as cover is not smooth. Swage fittings and band collars are not advised as they could lead to leakage or spiral break. We recommand checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue. Do not use Spirabel S.N.T.-A for the transfer of hydrocarbons. We recommend using Spirabel M.D.S.O or Spirabel PUA2 for this application. For very abrasive powders, use polyurethane hoses like Spirabel PU A2.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Transparent 25 m	Transparent 50 m
40	+/- 0,8	4	582	22,5	7,5	700	160	137128	136925
50	+/- 1,0	4,5	824	19,5	6,5	700	200	137144	136941
60	+/- 1,0	4,5	970	18	6	700	240	137157	

SUCTION AND DELIVERY ~ MULTIPURPOSE

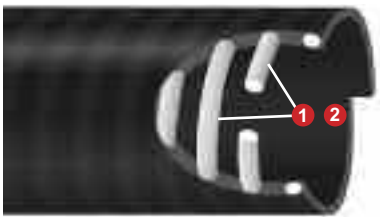
SPIRABEL® S.I.S.E.

+60
-25 °C

PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS
- Agricultural spraying
- Seed drills
- Transfer of alcohol

SECTORS OF ACTIVITY
- Agriculture



1. Anti-impact rigid PVC spiral reinforcement
2. Flexible, smooth PVC bore

Multipurpose hose, cold flexible.

Reinforced with a rigid and shock-proof PVC spiral in a black soft PVC wall.

Marking: Without Marking

ADVANTAGES
Spirabel SISE has a good resistance to vacuum and is very flexible even in cold weather thanks to its special PVC wall. Its smooth inner wall assures low flow losses, avoids retention zones and assists cleaning. Spirabel SISE can be used to transfer food liquids and even alcohol up to 50% at 60°C.

CONNECTORS
Symmetrical connectors (Guillemin or Storz) with wire collars as cover is not smooth. Swage fittings and band collars are not advised as they could lead to leakage or spiral break. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Black 25 m	Black 30 m	Black 50 m
20	+/- 1,0	2,4	230	12	4	700	60		032644	
25	+/- 1,0	2,5	280	12	4	600	75		032646	032647
30	+/- 1,0	2,5	340	12	4	600	90	032663		032665
32	+/- 1,0	2,5	360	12	4	600	95	032666	032667	032668
38	+/- 1,0	2,8	480	12	4	500	115		032669	
40	+/- 1,0	2,9	500	12	4	500	120			032671
51	+/- 1,0	3,2	730	12	4	500	155		032679	032680
60	+/- 1,0	3,2	840	12	4	500	180			032683

SUCTION AND DELIVERY ~ MULTIPURPOSE

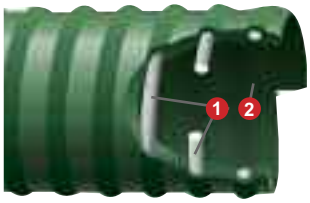
SPIRABEL® G.M.D.S.

+60
-15 °C

PHTHALATES < 0,1 %

APPLICATIONS
Multipurpose

ALL SECTORS OF ACTIVITY



1. Shock-proof spiral reinforcement
2. Flexible PVC green wall

Multipurpose hose.
Reinforced with a white, rigid and shock-proof PVC spiral in a soft PVC wall.

Marking: Spirabel GMDS Ø inn [batch number] [code date]

ADVANTAGES
Spirabel GMDS is a resistant, flexible and economic hose. Its very smooth internal wall reduces the flow losses.

CONNECTORS
Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.
We recommend to use SPIRABEL M.D.S.O or SPIRABEL PUA2 for the transfer of hydrocarbons.

Warning
Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Green 30 m
25	+/- 0,8	3,4	360	15	5	700	60	033207
32	+/- 0,8	3,5	460	15	5	600	75	034380
38	+/- 0,8	3,7	570	15	5	600	90	034383
51	+/- 1,0	4,3	830	15	5	600	95	033233
63	+/- 1,0	4,4	1050	12	4	500	115	034193
76	+/- 1,0	5,3	1470	12	4	500	120	033255
89	+/- 1,0	6,1	1725	9	3	500	150	033905
102	+/- 1,0	6,3	2165	9	3	500	180	033920
127	+/- 1,0	6,7	3190	9	3	500	300	033951
152	+/- 1,0	7,2	4220	9	3	500	320	148914

SPIRABEL® M.D.S.F. AL

+60
-25 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C, D1

- ✓ fruit juices
- ✓ wines
- ✓ alcohols
- ✓ milk

APPLICATIONS

Applications in the food industry for delivery foodstuffs conform the regulation 10/2011/EU - A/B/C/D1

SECTORS OF ACTIVITY

- Food processing (factories and cooperatives)
- Wine producing

1. Shock-proof spiral reinforcement
2. Flexible PVC wall (transparent or green tint)

Cold flexible food hose for heavy-duty industrial applications.

Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

Marking: SPIRABEL MDSF AL (EU) N° 10/2011 Ø inn [batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application.

The Spirabel M.D.S.F AL is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25 ° C to + 60 ° C

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Transparent 25 m	Green 20 m	Green 30 m
40	+/- 1,0	4,3	706	15	5	950	140			176031
51	+/- 1,0	4,7	1021	15	5	950	179	175796		176057
63	+/- 1,0	5,3	1274	12	4	900	221			176073
76	+/- 1,0	5,6	1716	12	4	900	266			137215
80	+/- 1,0	5,7	1813	12	4	900	280			176099
102	+/- 1,0	7,1	2647	9	3	850	357			137244
105	+/- 1,0	7,3	2745	9	3	850	473			176247
110	+/- 1,1	7,6	2940	9	3	850	385			176144
127	+/- 1,3	8,2	3528	6	2	800	572		176173	
151	+/- 1,5	9,5	4900	6	2	700	680		176202	

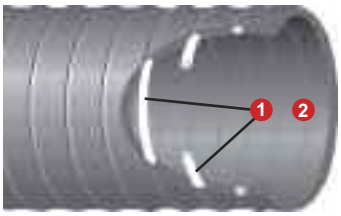
SPIRABEL® M.D.S.E.

+60
-25 °C

PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS
- Emptying and draining
- Equipment for lorries and liquid Slurry tanks

SECTORS OF ACTIVITY
- General industry
- Agriculture
- Road works, civil engineering



1 Shock-proof spiral reinforcement
2 Flexible PVC wall, grey

Flexible hose for heavy-duty industrial applications.
Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

Marking: SPIRABEL MDSE Ø inn [batch number]

ADVANTAGES
The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application.
The Spirabel M.D.S.E is very flexible and suitable for use at low temperatures down to -25° C.
- Smooth interior and exterior
- Robust construction
- abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25 ° C to + 60 ° C

CONNECTORS
Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.
Warning
For transfer of oil we recommend the use of Spirabel MDSO.
Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Grey 20 m	Grey 30 m	Grey 50 m
25	+/- 0,8	3,4	370	15	5	950	88		166913	
32	+/- 0,8	3,6	515	15	5	950	112		166916	
38	+/- 0,8	4,0	623	15	5	950	133		166918	
40	+/- 0,8	4,3	721	15	5	950	140		166920	
51	+/- 1,0	4,7	1055	15	5	950	179		166925	
60	+/- 1,0	5,0	1200	12	4	950	211		166927	
63	+/- 1,0	5,3	1303	12	4	950	221		166929	
76	+/- 1,0	5,6	1748	12	4	950	266		166934	
80	+/- 1,0	5,7	1851	12	4	950	280		166937	166938
102	+/- 1,0	7,1	2697	9	3	950	357		166943	
105	+/- 1,0	7,3	2803	9	3	950	473		166945	
110	+/- 1,1	7,6	3005	9	3	950	385		166948	
120	+/- 1,2	7,7	3250	6	2	950	540		166950	
127	+/- 1,3	8,2	3612	6	2	950	572	166951		
151	+/- 1,5	9,5	4950	6	2	950	680	166953		

SPIRABEL® M.D.S.O.

+60
-25 °C

PHTHALATES < 0,1 % PHTHALATE FREE

1 Shock-proof spiral reinforcement
2 Flexible PVC wall, blue

APPLICATIONS

Applications with exceptionally high flexibility and resistance to hydrocarbons in industry, engineering, construction, water supply and waste water technology, agriculture.

SECTORS OF ACTIVITY

- General industry
- Agriculture
- Road works, civil engineering

Flexible hose for heavy-duty industrial applications.

Rigid shock-proof PVC reinforced spiral in flexible PVC wall.

Marking: SPIRABEL MDSO Ø inn [batch number]

ADVANTAGES

The new generation of suction and delivery hoses with shockproof PVC reinforced spiral for the highest demands on quality and performance. Robust and easy to handle, versatile in use, convincing in its application.

The Spirabel M.D.S.O is very flexible and suitable for use at low temperatures down to -25° C.

- Smooth interior and exterior
- Robust construction
- abrasion resistant
- UV, ozone, weather resistant
- Good chemical resistance
- Application temperature: -25 ° C to + 60 ° C

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX). Crimping and band collars are not recommended as they do not ensure a perfect leak-proof connection and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 102 to 105 column B.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Blue				
								10 m	20 m	30 m	40 m	50 m
25	+/- 0,8	4,0	485	15	5	950	88			176010		
32	+/- 0,8	4,0	585	15	5	950	112			176012		
38	+/- 0,8	4,0	715	15	5	950	133			176014		
40	+/- 1,0	4,2	820	15	5	950	135				176016	
51	+/- 1,0	4,6	1105	15	5	950	179	176017		176018		
60	+/- 1,0	5,0	1360	12	4	950	211			176019		
63	+/- 1,0	5,0	1465	12	4	950	221			176020		
76	+/- 1,0	5,3	1780	12	4	950	266	176022		176023		
80	+/- 1,0	5,5	2069	12	4	950	280				176024	176009
102	+/- 1,0	6,3	2820	9	3	950	357	176025		176026		
152	+/- 1,5	7,0	4820	6	2	950	680		176029			

SPIRABEL® VENDANGES S.F.

+60 / -25 °C

PHTHALATE FREE < 0,1 % PHTHALATES

(EU) N° 10/2011

Simulants A, B, C, D1

✓ fruit juices ✓ alcohols
✓ wines

1. Red spiral in shock-proof rigid PVC
2. Flexible transparent PVC wall

APPLICATIONS
- Wine growing
- Transfer of food liquids

SECTORS OF ACTIVITY
- Wine producing
- Food processing

Spiral hose for wine producing applications with up to 50% alcohol content.

Shock-proof rigid PVC spiral and flexible transparent PVC wall. Smooth exterior for diameters up to 63mm. Food quality.

Marking: SPIRABEL VENDANGES SF Ø inn (EU) N° 10/2011 - GARANTI SANS PHTALATES - QUALITÉ SOUPLE A FROID [batch number]

ADVANTAGES
With its excellent properties under pressure and during suction, Spirabel Vendanges SF hose is extremely flexible, even at low temperatures, thanks to its specially formulated flexible PVC core.
Its smooth interior minimizes flow loss, avoids retention areas and makes rinsing easy. Its outer layer is also smooth to make it easy to tighten the collars and reduce abrasion on the ground. Spirabel Vendanges SF is perfect for transferring food liquids and conveying alcoholic beverages up to 50% alcohol content at 40°C.

CONNECTORS
Guillemin or Storz symmetrical connectors, cam or universal joint connectors.
Fixings with band collars, single-thread or spiral collars (SERFLEX).

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.
Warning
Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Red spiral		Yellow spiral		Clear spiral
								25 m	50 m	25 m	50 m	25 m
40	+/- 1,0	4,3	699	21	7	900	144	148939	148942	148940		148941
50	+/- 1,0	4,7	1020	21	7	900	175	148955	148968		148969	148957
60	+/- 1,0	4,8	1215	18	6	900	210	148971				
63	+/- 1,0	5,3	1351	18	6	900	220	148997				
70	+/- 1,0	5,5	1603	18	6	900	245	149013				149015
80	+/- 1,0	5,7	1798	15	5	900	280	149039				
100	+/- 1,0	7,0	2622	15	5	900	350	149042				
120	+/- 1,0	8,2	3496	15	5	800	420	149055				

SPIRE ACIER

+60
-15 °C

PHTHALATES < 0,1 % PHTHALATE FREE

(EU) N° 10/2011

Simulants A, B, C, D1

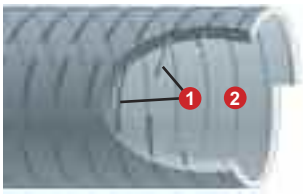
- ✓ fruit juices
- ✓ alcohols
- ✓ wines
- ✓ milk

APPLICATIONS

- Sewage
- Suction and delivery of slurry
- Transfer of chemical products, food products, liquids, powders and dust.

SECTORS OF ACTIVITY

- Industry
- Building



1. Galvanized steel spiral
2. Transparent PVC wall

Flexible transparent hose with metallic spiral.

With soft transparent PVC wall and galvanized steel spiral.

Marking: SPIRE ACIER ø inn (EU) N° 10/2011 Sim A,B,C,D1 [batch number]

ADVANTAGES

Manufactured from high quality soft PVC with a galvanized steel spiral, Spire Acier is highly resistant to vacuum and crushing. The transparent wall is UV resistant and allows easy visual control of the fluid and identification of blockages. The smooth inner wall reduces flow losses and enables easy cleaning. Spire Acier is suitable for food contact applications up to 40°C. Alcohol beverages up to 50% alcohol content can also be conveyed up to 40°C.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors - Fixing with singlethread or spiral collars.

Crimping band collars are not recommended as they do not ensure perfect leak-proof connection and increase the risk of the spiral being crushed or breaking.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Transparent 20 m	Transparent 30 m	White 25 m
10	+/- 0,6	2,75	154	36	12	900	18		135434	
12	+/- 0,6	2,5	186	34,5	11,5	900	23		135460	
14	+/- 0,6	3	220	33	11	900	26		135476	
16	+/- 0,6	3	250	31,5	10,5	900	30		034799	
18	+/- 0,6	3,5	286	30	10	900	32		135511	
20	+/- 1,0	3,5	392	30	10	900	34		034902	
25	+/- 1,0	4	506	28,5	9,5	900	42		034916	
30	+/- 1,0	4	610	27	9	900	50		034921	
32	+/- 1,0	4	640	27	9	900	53		190785	
35	+/- 1,0	4,5	726	24	8	900	58		034934	
38	+/- 1,0	4	776	22,5	7,5	900	63		190798	135494
40	+/- 1,0	5	920	22,5	7,5	900	66		034947	
45	+/- 1,0	5	1116	19,5	6,5	900	74		034959	
50	+/- 1,0	5,5	1260	18	6	900	82		034962	
60	+/- 1,0	6	1735	16,5	5,5	900	130		034991	
63	+/- 1,0	6	1756	16	5	900	140		034992	
70	+/- 1,0	7	2036	15	5	900	180		034827	
76	+/- 1,0	7	2230	12	4	900	200		034769	
80	+/- 1,0	7	2426	10,5	3,5	900	172	034743		
90	+/- 1,0	7,5	2810	9	3	900	192	034756		
102	+/- 1,0	8,5	3540	9	3	900	300	190710		
110	+/- 1,1	8,5	3830	7,5	2,5	900	320	034869		
120	+/- 1,2	8	4136	6,6	2,2	900	340	034872		
150	+/- 1,5	10	6300	6	2	900	450	034975		

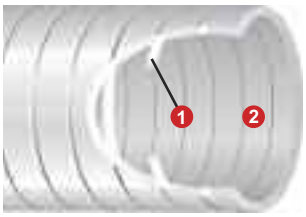
SPIRABEL® BALNEO/PISCINE

+60
-15 °C

PHTHALATES < 0,1 %

APPLICATIONS

Swimmingpools and spas



1. White spiral in rigid PVC
2. Wall in soft and white PVC. Inner and outer smooth

Hose reinforced with a rigid spiral In a white soft PVC wall.

Marking: SPIRABEL BALNEO Ø out [batch number]

ADVANTAGES

The manufacturing process designed to make Spirabel Balneo assures smooth inner and outer walls and a high precision of the outer diameter. This brings a total compatibility with plastic connectors used for swimmingpools or spas.
This hose is highly resistant to crushing and vacuum.

CONNECTORS

Usual plastic connectors for swimmingpool building.

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

Warning

Spiral hoses in general have an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	g/m	bar	bar	mm	White 25 m	White 50 m
32	+/- 0,4	346	21	7	80	168729	
40	+/- 0,4	513	19	6	120	168745	
50	+/- 0,4	675	18	6	190	168774	168780
63	+/- 0,4	943	15	5	250	168793	

Warning: designation by the outside diameter

SUCTION AND DELIVERY ~ SPECIAL DUTY

SPIRABEL® P.U.A2

+80
-20 °C

PHTHALATE FREE PHTHALATES < 0,1 %

(EU) N° 10/2011

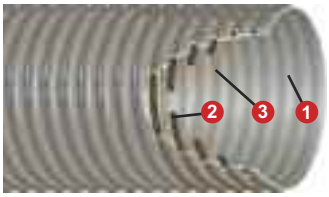
Gaine Spirabel PU A2 suitable for dried foodstuffs only.

APPLICATIONS

- Transport of abrasives (powders, granules, mud, sand, cement, gravel, etc.)
- Transfer of various liquids: paints, solvents, hydrocarbons

SECTORS OF ACTIVITY

- Industry in general
- Including chemicals
- Industry
- Building



1. Flexible polyurethane bore
2. Rigid PVC spiral reinforcement
3. Copper conducting spiral

Multipurpose hose, resistant and very flexible, antistatic.

Flexible, transparent polyurethane bore. Rigid grey PVC reinforcement spiral.
Copper conducting wire embedded within the spiral.

Marking: Ø inn [batch number]

ADVANTAGES

Very resistant and light, Spirabel P.U.A2 is ideal for transporting abrasives: its entirely smooth interior avoids deposits forming and the top-quality polyurethane used offers excellent abrasion-resistance.
It has outstanding mechanical qualities: it easily withstands repeated flexing and has good suction-holding properties at temperatures up to 80°C. Spirabel P.U.A2 is transparent, allowing easy monitoring of product circulation.

CONNECTORS

Guillemin or Storz symmetrical connectors, cam or universal joint connectors – Fixings with single-thread or spiral collars (SERFLEX).
Crimping and band collars are not recommended as they do not ensure a perfect seal and increase the risk of the spiral being crushed and breaking.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

Warning

Spiral hoses have in general an elongation under pressure that can be important when temperature is above 40°C. This has to be considered before installation. We remain at your disposal for any question on this issue.

mm	± mm	mm	g/m	bar	bar	mbar	mm	Grey spiral 10 m
40	+/- 1,0	4	448	12	4	900	190	150302
50	+/- 1,0	4,5	640	9	3	800	215	150315
60	+/- 1,0	5	854	9	3	800	230	150328
100	+/- 1,0	6,5	1616	6	2	700	420	150344

DUCTING : GA1, GA2, GA3, SPIRABEL PUA1, PUR

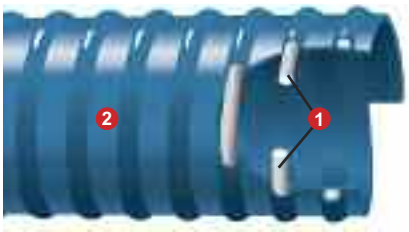
DUCTING HOSES

CHEMICAL RESISTANCE CHART OF HOSES

INDEX PRODUCTS BY ARTICLE CODE

GAINE G.A.1

+60
-15 °C



1 Spiral in rigid PVC
2 Wall in soft blue PVC

APPLICATIONS
- Ventilation
- Suction of air and fumes

SECTORS OF ACTIVITY
- Industry

Flexible ducting in PVC for ventilation and fumes suction.
Reinforced with a rigid PVC spiral.

Marking: GA1 Ø inn [batch number]

ADVANTAGES
Ducting G.A.1 is very light and high flexible. Its smooth inner wall assures low flow losses.

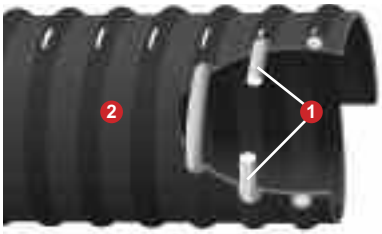
CONNECTORS
Connectors with wire collars or screwed fittings (left hand spiral).

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	± mm	mm	mm	g/m	mbar	mm	Blue 30 m
25	+/- 0,8	0,5	2	130	300	25	190813
30	+/- 0,8	0,5	2	150	300	30	190826
35	+/- 1,0	0,5	2,25	180	300	35	190839
38	+/- 1,0	0,5	2,25	200	300	38	190913
40	+/- 1,0	0,5	2,4	210	200	40	190842
50	+/- 1,2	0,5	2,6	340	200	50	190855
63	+/- 1,2	0,5	3	425	200	63	190926

GAINE G.A. 2

+60
-15 °C



1 Spiral in rigid PVC
2 Wall in soft grey PVC

APPLICATIONS
- Ventilation
- Suction of air and fumes
- Agricultural spraying

SECTORS OF ACTIVITY
- Industry & agriculture

Flexible ducting in PVC for ventilation and fumes suction.
Reinforced with a rigid PVC spiral.

Marking: GA2R Ø inn [batch number]

ADVANTAGES
G.A.2 is very light and high flexible. The smooth inner wall reduces flow losses.

CONNECTORS
Connectors with wire collars or screwed fittings. (left hand spiral)

CHEMICAL RESISTANCE
See table pages 102 to 105 column A.

mm	± mm	mm	mm	g/m	mbar	mm	Length	Grey
20	+/- 1,0	0,75	2,5	116	550	20	50 m	150708
25	+/- 1,0	0,75	3,0	164	500	25	50 m	150711
35	+/- 1,0	0,75	3,0	232	500	35	50 m	150737
38	+/- 1,0	0,75	3,0	263	500	38	50 m	150795
40	+/- 1,0	0,8	3,3	272	500	40	50 m	150740
50	+/- 1,0	0,85	4,0	436	450	50	30 m	150753
60	+/- 1,0	0,85	4,0	524	400	60	30 m	035075
70	+/- 1,0	0,9	4,0	620	400	70	30 m	035088
75	+/- 1,0	0,9	4,0	670	400	75	30 m	150853
80	+/- 1,0	1,0	4,0	756	400	80	30 m	035133
90	+/- 1,0	1,0	4,0	806	400	90	30 m	035120
100	+/- 1,0	1,0	4,0	950	400	100	20 m	035098
110	+/- 1,1	1,0	4,5	1068	330	110	20 m	035104
120	+/- 1,2	1,0	4,5	1164	330	120	20 m	035146
125	+/- 1,3	1,0	5,5	1186	300	125	20 m	150811
140	+/- 1,4	1,1	4,5	1456	300	140	20 m	150766
150	+/- 1,5	1,1	5,0	1650	300	150	20 m	150779
160	+/- 1,6	1,1	5,0	1844	300	160	10 m	150782
180	+/- 1,8	1,1	5,5	2134	250	180	10 m	150824
200	+/- 2,0	1,1	5,0	2328	250	200	10 m	035117
250	+/- 2,5	1,1	6,0	3250	200	250	10 m	150837

GAINE G.A. 3

+60
-15 °C

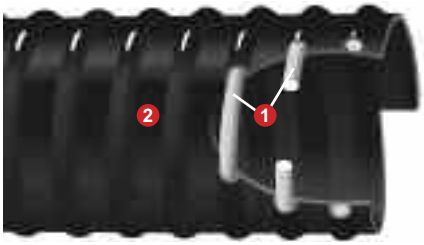
PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS

- Ventilation
- Suction of air and fumes
- Small pumps and water delivery (3 bar max.)
- Seed drills

SECTORS OF ACTIVITY

- Industry
- Horticulture and agriculture



1. Spiral in rigid shock-proof PVC
2. Wall in soft black PVC

Flexible ducting in PVC for ventilation and fumes suction.

Reinforced with a rigid PVC spiral.

Marking: Without marking

ADVANTAGES

Ducting G.A.3 is very light and highly flexible. It has a good mechanical resistance and can even withstand low pressure (3 bar max.)

CONNECTORS

Connectors with wire collars or screwed fittings (right hand spiral).

CHEMICAL RESISTANCE

See table pages 102 to 105 column A.

mm	± mm	mm	mm	g/m	mbar	mm	Black 25 m	Black 30 m
12	+/- 1,0	1,0	2,5	105	350	30		167617
20	+/- 1,0	1,0	2,5	160	350	35		167620
25	+/- 1,0	1,0	2,7	217	350	40		167633
32	+/- 1,0	1,0	3,1	260	350	45		167646
40	+/- 1,0	1,0	3,2	337	300	50	167659	

GAINE SPIRABEL® P.U.A1

+80
-20 °C

PHTHALATE FREE
PHTHALATES < 0,1 %

(EU) N° 10/2011

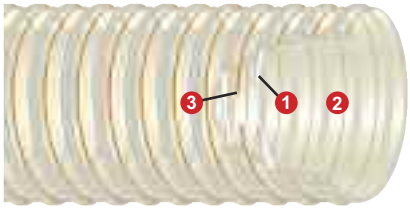
Gaine Spirabel P.U.A1 suitable for dried food products only.

APPLICATIONS

Suction of:
- Sawdust and chips
- Food powders
- Air and fumes

SECTORS OF ACTIVITY

- Wood industry
- Food industry
- Chemical industry



1. Rigid PVC spiral
2. Wall in transparent polyurethane
3. Conductive copper wire

Flexible ducting in polyurethane.

Reinforced with a white rigid PVC spiral and fitted out with a conductive copper wire.

Marking: PU A1 Ø inn [batch number]

ADVANTAGES

P.U.A1 ducting has a very good mechanical resistance but is also very flexible. The copper wire allows an easy connection to dissipate electrostatic charges.
The inner wall is smooth and its transparent allowing the observation of transferred products.

CONNECTORS

Connectors with wire collars. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

mm	± mm	mm	mm	g/m	mbar	mm	Translucent 10 m
30	+/- 0,8	0,4	3	190	500	45	150128
38	+/- 0,8	0,5	3,2	230	400	57	150157
40	+/- 0,8	0,5	3,3	250	400	60	150009
45	+/- 1,0	0,5	3,4	280	400	67	150160
50	+/- 1,0	0,5	3,5	340	400	75	150012
60	+/- 1,0	0,5	3,4	410	400	90	150025
63	+/- 1,0	0,5	3,6	430	400	94	150186
70	+/- 1,0	0,5	4,2	500	400	105	150199
76	+/- 1,0	0,5	4,4	550	400	114	150202
80	+/- 1,0	0,5	4,5	610	400	120	150031
90	+/- 1,0	0,6	4,4	715	400	135	150215
100	+/- 1,0	0,6	4,7	820	400	150	150044
110	+/- 1,1	0,6	5,2	890	300	165	150228
120	+/- 1,2	0,6	5,5	950	300	180	150057
150	+/- 1,5	0,7	6,4	1360	300	300	150086
160	+/- 1,6	0,8	6,5	1550	300	320	150099
180	+/- 1,8	0,8	6,7	1900	300	360	150102
200	+/- 2,0	0,8	6,8	2100	300	400	150115

GAINE TAPE PUR 400

+90
-40 °C

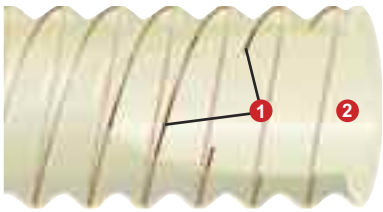
PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS

Suction of:
- Sawdust and chips
- Air and fumes
- Oil vapour extraction

SECTORS OF ACTIVITY

- Wood industry
- Chemical industry



1 Metallic spiral
2 Wall in transparent polyurethane

Flexible ducting in polyurethane with wall reinforced with a coppered steel wire helix. TAPE PUR 400: Standard quality.

Marking: TAPE PUR 400 Ø inn ↑

ADVANTAGES

TAPE PUR 400 ducting has high flexibility and very good mechanical resistance, provided by the quality of the wall made from 100% polyurethane. Extremely good abrasion resistance.
Excellent flexibility and elasticity. Remarkable for its wide temperature range of use.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

mm	± mm	mm	g/m	mbar	mm	Translucent 10 m
60	0/+ 0,5	0,4	340	160	21	175252
76	0/+0,5	0,4	420	110	27	175278
80	0/+0,5	0,4	440	100	28	175033
102	0/+1,0	0,4	520	70	35	175046
120	0/+1,0	0,4	600	60	43	175059
127	0/+1,0	0,4	610	50	44	175307
140	0/+1,0	0,4	710	50	48	175320
152	0/+1,0	0,4	780	50	53	175062
160	0/+1,0	0,4	810	40	57	175323
203	0/+2,0	0,4	1080	30	70	175088
254	0/+2,0	0,4	1300	14	88	175335
300	0/+2,0	0,4	1700	11	105	175090

GAINE TAPE PUR 600

+90
-40 °C

PHTHALATE FREE PHTHALATES < 0,1 %

(EU) N° 10/2011

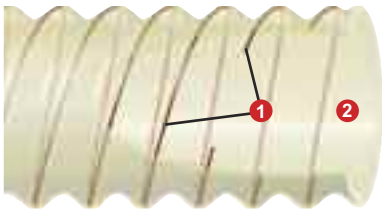
Gaine TAPE PUR 600 suitable for dried food products only.

APPLICATIONS

Suction of:
- Sawdust and chips
- Air and fumes

SECTORS OF ACTIVITY

- Wood industry
- Chemical industry



1 Metallic spiral
2 Wall in transparent polyurethane

Flexible ducting in polyurethane with wall reinforced with a coppered steel wire helix. TAPE PUR 600: Heavy duty.

Potential equalisation, earthed at the ends of the steel spiral.

Marking: TAPE PUR 600 Ø inn

ADVANTAGES

TAPE PUR 600 ducting has high flexibility and very good mechanical resistance, provided by the quality of the wall made from 100% ether-based polyurethane. Extremely good abrasion resistance.
Excellent flexibility and elasticity. Remarkable for its wide temperature range of use.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

mm	± mm	mm	g/m	mbar	mm	Translucent 10 m	Translucent 15 m
40	0/+0,5	0,6	300	280	20		174698
51	0/+0,5	0,6	380	234	25		174701
102	0/+0,6	0,6	680	81	51		174771
120	0/+0,6	0,6	790	68	60		174797
127	0/+0,6	0,6	820	54	63		174800
152	0/+0,6	0,6	990	54	75		174839
160	0/+0,6	0,6	1020	47	80		174842
180	0/+0,8	0,6	1170	36	90		174855
305	0/+0,8	0,6	2150	13	153	174900	

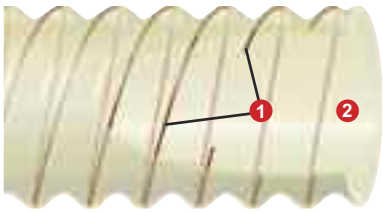
GAINE DUC PUR 700

+90
-40 °C

PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS
Suction of many powders and granules

SECTORS OF ACTIVITY
- Agriculture
- Perfume industry
- Industries including wood and paper
- Plastics processing
- Road maintenance



1. Galvanized steel spiral
2. Transparent polyurethane wall

Flexible ducting in polyurethane with wall reinforced with a coppered steel wire helix.
Industry Quality Standard.

Marking: [batch number] ↑

ADVANTAGES
DUC PUR 700 ducting provides an excellent compromise between a high flexibility and a proven mechanical resistance. Extruded wall with reinforced steel wire helix. This technique provides optimised geometry for a smooth internal wall surface.

CONNECTORS
Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE
See table pages 102 to 105 column C.

mm	± mm	mm	mm	g/m	mbar	mm	Translucent 10 m
50	0/+0,6	0,7	4,5	380	280	50	175010
60	0/+0,6	0,7	4,5	450	220	60	175011
80	0/+0,6	0,7	4,5	580	135	80	175012

GAINE DUC PUR 1500

+90
-40 °C

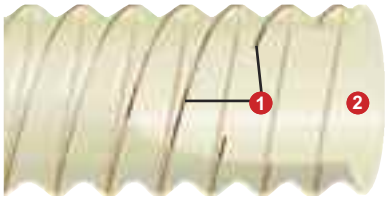
PHTHALATES < 0,1 % PHTHALATE FREE

APPLICATIONS

Transport of abrasives : powders, granules, mud, sand, cement, gravel, etc.

SECTORS OF ACTIVITY

- Construction
- Mines



1. Galvanized steel spiral
2. Transparent polyurethane thick wall

Heavy duty flexible hose in transparent polyurethane, reinforced with a galvanized steel spiral. Thick wall.

Heavy Standard. Fire resistance UL94-V2.

Marking: ↑ DUC PUR 1500 - Ø inn - [batch number] ↑

ADVANTAGES

Thick 100% polyurethane polyester wall; chosen for its resistance to abrasion; extruded wall with reinforced steel wire helix. This technique provides a smooth internal wall surface and excellent flexibility while maintaining extreme durability.

CONNECTORS

Connectors with wire collars. Small diameters can be screwed into themselves. We recommend checking before assembly that the fittings cannot harm the inner wall.

CHEMICAL RESISTANCE

See table pages 102 to 105 column C.

mm	± mm	mm	mm	g/m	mbar	mm	Translucent 10 m
40	0/+0,6	1,5	5,0	540	950	50	175020
50	0/+0,6	1,5	5,0	660	930	60	175021
100	0/+0,6	1,5	5,5	1490	390	133	175025

CHEMICAL RESISTANCE CHART
OF HOSES

INDEX PRODUCTS BY ARTICLE
CODE

Chemical resistance chart of hoses

Chemical resistance :
1 = Good
2 = Limited
X = Not compatible

	A		B		C		D		E		F		G		H		I	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamid 12		Silicone		PTFE		PE elastomer	
	Standard and Tricoclair		Special chemical formula		Nobelair PU, Technobel PU, PU calibrated tube		Technobel,		Profiline Aqua Plus		PA calibrated tube		Vitryl		PTFE Tubes		SpirAqua Plus	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Acetaldehyde	x	x	x	x	x	x	1	2	1	1	1	x	1	1	1	1	1	1
Acetic acid 10%	1	2	1	2	x	x	2	x	1	1	1	2	1	1	1	1	1	1
Acetic acid 25%	1	2	1	2	x	x			1	1			1	1	1	1	1	1
Acetic acid 50%	2	x	2	x	x	x			1	1			x	x	1	1	1	1
Acetic acid, anhydride	x	x	x	x	x	x			2	x			1	1	1	1		
Acetone	x	x	x	x	2	x	x	x	1	2	1	2	2	2	1	1	1	2
Acetophenone	x	x	x	x			1	1	1	2					1	1	2	2
Acetylene	1	1	1	1	1	1	1	1	1	1	1	1	x	x	1	1	1	2
Acrylonitrile	1	1	1	1	x	x	2	2	1	1	1	2	1	1	1	1	1	1
Ally chloride	x	x	x	x	x		1	2	x	x			1	1	1	1	x	x
Alum	1	1	1	1	1	2	2	2	1	1	1		1	1	1	1	1	1
Aluminium chloride	1	1	1	1	1	2	1	2	1	1	1	1	x	x	1	1	1	1
Aluminium fluoride	1		1		x	x	1	2	1	1			1	1	1	1		
Aluminium hydroxide	1		1		2				1				1	1	1	1	1	
Aluminium sulphate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Ammonia	1		1		2	2	1	2	1	1	1		2	2	1	1	1	1
Ammonia (in water)	x	x	x	x	2	x	x	x	1	1	2	x	1	1	1	1	2	
Ammonium acetate	1	1	1	1	1	2	1	2	1	1					1	1	1	1
Ammonium chloride	1	1	1	1	1	2			1	1			1	1	1	1	1	1
Ammonium hydroxide	1	2	1	2	1				1				1	1	1	1	1	
Ammonium metaphosphate	1		1		1				1		1	1	1	1	1	1	1	
Ammonium nitrate	1	1	1	1	1	2	1	x	1	1	1	1	1	1	1	1	1	1
Ammonium persulfate	1		1		2				1				1	1	1	1	1	
Ammonium phosphate	1	1	1	1	1		2	x	1	1	1	2	1	1	1	1	1	1
Ammonium sulfate	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1
Ammonium thiocyanate	1		1		2				1				1	1	1	1	1	
Amyl acetate	x	x	x	x	x	x	2	2	1	1	1	1	x	x	1	1	1	1
Aniline	x	x	x	x	x	x			1	1			1	1	1	1	1	2
Aniline coloring	1	1	1	1	x	x	2	x	x	x			2	2	1	1	x	x
Antimony chloride 50%	1		1		2		2	2	1				x	x	1	1	1	
Arsenic acid	1		1		x	x			1				2	2	1	1		
Asphalt	x	x	x	x	x	x							2	2	1	1		
Asphalt	x	x	x	x											1	1		
Baryum carbonate	1		1		1				1				1	1	1	1	1	
Benzaldehyde	x	x	x	x	x	x	x	x	1	1	1	2	x	x	1	1	1	1
Benzen (Benzol)	x	x	x	x	x	x			2	x	1	1	x	x	1	1	2	x
Benzyl chloride	x	x	x	x	x	x	1	2	x	x	1	1			1	1	x	x
Bisulfitic detergents							1	x			1	1						
Bleach	1	2	1	2	2	x	x	x	1	1	1	x	1	1	1	1	1	1
Borax	1	2	1		1	2	x	x	1	1	x	x	1	1	1	1	1	1
Boric acid 10%	1	1	1	1	2	x	1	x	1	1			2	2	1	1	1	1
Bromhydric acid 10%	1	1	1	1	x	x	x	x	1	1			x	x	1	1	1	1
Bromhydric acid 50%	x	x	x	x	x	x	x	x	1	1			x	x	1	1	2	2
Bromine	x	x	x	x	x	x	2	x	x	x			x	x	1	1	x	x
Bromobenzene	x	x	x	x			x	x	x	x	1	x	x	x	1	1	x	x
Butane	2	2	2	2	1	1	x	x	1	1			2	2	1	1	2	2
Butyl acetate	x	x	x	x	x	x	2	2	1	1	1	1	2	2	1	1	1	1
Butyl alcohol	1	2	1	2	2	x	1	2	x	x	1	2	1	1	1	1	1	1
Butyl ether	1		1		x				1				x	x	1	1	1	
Butyl glycol	x	x	x	x	x	x			1				2	2	1	1		
Butyl stearate	x	x	x	x	1		x	x	x	x			1	1			x	x
Butyric acid	1		1		x	x			1	1			x	x	1	1	1	1
Calcium bisulfite	1	1	1	1	1		1	x	1	1	1		1	1	1	1	1	1
Calcium carbonate	1		1		1				1				1	1	1	1	1	
Calcium chlorate	1		1		1				1				1	1	1	1	1	
Calcium chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1	1	1
Calcium hydroxide	1	1	1	1	1				1				1	1	1	1	1	1
Calcium hypochlorite 15%	1		1		x	x	x	x	1				x	x	1	1	1	1
Calcium sulphide	1		1		x				1				x	x	1	1	1	
Carbon bisulfur					x	x	x	x	2	2			x	x	1	1	2	2
Carbon dioxide (dry)	1	1	1	1	1		1		1	2	1		1	1	1	1	1	
Carbon dioxide (wet)	1	2	1	2	2	x			1		1	x	1	1	1	1	1	
Carbon monoxide	1	1	1	1	1	1	1	1	1	1	2	x	1	1			1	1
Carbon sulphide	x	x	x	x	2	x	x	x	x	x	1	x	2	2	1	1	x	x
Carbon tetrachloride	x	x	x	x	x	x	x	x	x	x	2	x	2	2	1	1	x	x
Carbonic acid	1		1		1				1	1	1				1	1	1	1
Castor oil	x	x	1	1	1	1	1	1	1	2	1	1	1	1	1	1		
Chloracetic acid	x	x	x	x	x	x	x	x	1	1	x	x	1	1	1	1	1	1
Chlorine (dry)	x	x	x	x	x	x	x	x	2	x	2	x	x	x	1	1	2	x

	A		B		C		D		E		F		G		H		I	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamid 12		Silicone		PTFE		PE elastomer	
	Standard and Tricoclair		Special chemical formula		Nobelair PU, Technobel PU, PU calibrated tube		Technobel,		Profiline Aqua Plus		PA calibrated tube		Vitryl		PTFE Tubes		SpirAqua Plus	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Chlorine (wet)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1	x	x
Chlorine water	1	x	1	x	2	x	x	x	1	2	2	x	2	2	1	1	1	2
Chlorobenzene	x	x	x	x	x	x	x	x	2	2	2	x	2	2	1	1	2	2
Chloroform	x	x	x	x	x	x			x	x			x	x	1	1	x	x
Chlorosulfonic acid	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1	x	x
Chromic acid 50%	x	x	x	x	x	x	x	x	1	2	x	x	x	x	1	1	2	2
Citric acid	1		1		2	x	1	1	1	1	1	2	x	x	1	1	1	1
Coal tar	x	x	x	x			1	2			1	2			1	1		
Concentrated hydrochloric acid	2	x	2	x	x	x	x	x	1	1	x	x	2	2	1	1	2	2
Concentrated potassium	1	x	1	x	x	x	x	x	1	1	1	1			1	1	1	
Concentrated soda	1	x	1	x	x	x	x	x	1	1	1	x	2	2	1	1	2	2
Copper acetate					1	2	1	2	1	1			1	1	1	1	2	2
Copper arsenate					1				1				1	1	1	1	2	
Copper chloride	1	1	1	1	1	2			1	1			1	1	1	1	1	1
Copper cyanide					2				1	1			1	1	1	1	1	1
Copper nitrate					x				1				1	1	1	1	1	
Copper sulphate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Creosote oil	x	x	1	2			2	x	x	x	1	1	2	2	1	1		
Cresol (methyl phenol)	x	x	x	x	x	x	x	x	2	x	x	x	2	2	1	1	2	x
Cyanhydric acid					2	x	1	x	1	1					1	1	2	x
Cyclohexane	1	1	1	1	2	x	1	x	1	1	1	2	x	x	1	1	1	1
Cyclohexanol	x	x	x	x	x	x	x	x	1	1	1	x			1	1	1	1
Cyclohexanone	x	x	x	x	x	x	x	x	2	2	1	x	2	2	1	1	2	2
Decalin							1	2	2	x	1	1			1	1	2	x
Diacetone	x	x	x	x	x	x	x	x	x	x					1	1	x	x
Diacetone alcohol	x	x	x	x	2	x	x	x	1	1	1	2	1	1	1	1		
Dibutyl phtalate	x	x	x	x	x	x			x	x			2	2	1	1	x	x
Dichlorethane	x	x	x	x	x	x	x	x	x	x	2	x	x	x	1	1	x	x
Diesel oil	x	x	1	2	1	2	1	2	1		1	1	x	x	1	1		
Diethyl ether	x	x	x	x	2				x	x			x	x	1	1	x	x
Diethylamine	x	x	x	x			x	x					1	1	1	1		
Diethylene glycol	1		1		1	2	1	2	1	1	1		1	1	1	1	1	1
Dimethylamine	x	x	x	x			x	x	2	2					1	1	2	2
Dimethylformamide	x	x	x	x	x	x	x	x	1	2	1	1			1	1	1	2
Dioxane (diethylene ether)	x	x	x	x			1	2	2	2	1	2	1	1	1	1		
Diphenyl							1	2	1	1	1	1			1	1	1	1
Dry sulfuric anhydride					2	x	x	x	2	2	2	x	2	2	1	1		1
Dry sulfurous anhydride	1	1	1	1	2	x			1	1			1	1	1	1	1	
E85	x	x	x	x	1	1	1	2	x	x	x	x	x	x	1	1	x	x
Ethyl acetate	x	x	x	x	x	x	2	2	2	2	1	1	1	1	1	1	2	2
Ethyl acrylate	x	x	x	x			1	2					1	1	1	1		
Ethyl alcohol	1	2	1	2	2	x	1	2	1	2	1	x	1	1	1	1	1	2
Ethyl benzene	x	x	x	x	x	x	x	x	2	2					1	1	2	2
Ethyl cellulose							2	x					2	2	1	1		
Ethyl chloride	x	x	x	x	x	x			x	x			x	x	1	1	x	x
Ethyl ether	x	x	x	x	2	x	1	x	x	x			x	x	1	1	x	x
Ethyl mercatan	x	x					1	2	x	x					1	1	x	x
Ethylene					1	1	1	2							1	1		
Ethylene chloride	x	x	x	x	x	x	1	2	x	x	1	1	x	x	1	1	x	x
Ethylene diamine							x	x	1	1			1	1	1	1	1	1
Ethylene glycol	2	x	2	x	2	x	1	2	1	x	2		1	1	1	1		x
Ethylene glycol 30%	1	2	1	2	2	x	1	2	1	1	1		1	1	1	1	1	1
Ferric chloride	1	1	1	1	1	2	2	2	1	1	1		1	1	1	1	1	1
Ferric sulphate	1		1		2				1	1			1	1	1	1	1	1
Ferrique sulphate	1	1	1	1	1	2	1	1	1	1			1	1	1	1	1	1
Ferrous chloride	1		1		x		1	2	1	1	1	1	1	1	1	1	1	1
Fluorhydric acid 10%	1	x	1		2				2	2			2	2	1	1	2	2
Fluorhydric acid 30%	x	x	x	x	2				2	x			2	2	1	1	2	x
Fluorhydric acid 40%	x	x	x	x	x	x	x	x	x	x	x	x	2	2	1	1	x	x
Fluoride boric acid 65%	1		1		x	x			1				1	1	1	1	1	
Fluoride silicic acid					x	x			1				2	2	1	1	2	
Fluorine	x	x	x	x	x	x	x	x	1	1	x	x	x	x	1	1		
Fluosilicic acid 30%					x	x	1	x	1	1	2	x	x	x	1	1	2	x
Formaldehyde 40%	2	x	2	x	2		2	x	1	1	1	2	1	1	1	1	1	1
Formic acid 10%	2	x	x	x	x	x	1	x	1	2	1	2	1	1	1	1	1	1
Formic acid 80%	x	x	x	x	x	x	2	x	1	1	x	x	2	2	1	1		
Freon 11, 113, 114, 12, 21, 22	x	x	x	x	x	x	1	x	2	2	1	2					2	2
Fuel oil	x	x	1	2	1	2	1	2	2	x	1	1	x	x	1	1	1	2
Furan (furfuran)							1	2					2	2	1	1		
Furfural	1	1	1	1	x	x	1	2	x	x	1	2			1	1	x	x
Gallic acid	1		1		x	x			1				1	1	1	1	2	2
Gelatin	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1
Glucose	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glycerol	x	x	x	x	1	1	1	1	1	1	1	2	1	1	1	1		

	A		B		C		D		E		F		G		H		I	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamid 12		Silicone		PTFE		PE elastomer	
	Standard and Tricoclair		Special chemical formula		Nobelair PU, Technobel PU, PU calibrated tube		Technobel,		Profiline Aqua Plus		PA calibrated tube		Vitryl		PTFE Tubes		SpirAqua Plus	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Glycol chloridrine							2	x	1	1	x	x			1	1	2	2
Hexane	x	x	x	x	2	x	1	x	1	1	1	2	x	x	1	1	1	1
Hydrazine	x	x	x	x			x	x	1	1			1	1	1	1	1	1
Hydrochloric acid 15%	1	1	1	1	2	x	x	x	1	1	2	x	1	1	1	1	1	1
Hydrogen peroxide 10%	1	2	1	2	2				1	2			1	1	1	1		
Hydrogen peroxide 30%	1	x	1	x	2	x	2	x	1	2	1	x	1	1	1	1		
Hydrogene	1	1	1	1	1	1	1	1	1	1					1	1	1	1
Hydrogene sulphide	x	x	x	x	2	x	1	1	1		1	1	1	1	1	1		
Hydroquinone	1		1				1	1	1	1	1				1	1	1	1
Isooctane	x	x	x	x	1	1	x	x	2	x					1	1	2	x
Isobutyl alcohol					2	x	1	2	2	2	1				1	1	2	2
Isopropyl acetate	x	x	x	x	x	x	2	2					2	2	1	1		
Isopropyl ether	x	x	x	x	2	x	2	x	x	x					1	1	x	x
Isopropylic alcohol	1	2	1	2	2	x	1	2	1	1	1	2	2	2	1	1	1	1
Jet fuel	x	x	1	2	1		1	x	x	x	1	2	x	x	1	1	x	x
Jet fuel	x	x	1	2	1		1	x	x	x	1	1	x	x	1	1	x	x
Lactic acid 10%	x	x	x	x	2	x	1	x	1	2	1	1	1	1	1	1	2	2
Lead arsenate	1		1		1		1	2	1				1	1	1	1	1	
Lighting gas - Town gas					1		1		1		1		1	1	1	1		
lime	1	1	1	1	1	2							1	1	1	1	1	1
Lubricating oil	x	x	1	2	1	1	1	1							1	1		
Magnesia					1	1	1	1	1	1					1	1		x
Magnesium carbonate	1		1		1				1				1	1	1	1	1	
Magnesium chloride	1	1	1	1	1	2			1	1			1	1	1	1	1	1
Magnesium hydroxide	1	1	1	1	1				1				1	1	1	1	1	
Magnesium nitrate	1		1		2				1				1	1	1	1	1	
Magnesium sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1	1	1
Manganese sulphate	1		1		2				1				1	1	1	1	1	
Mercuric chloride	x	x	x	x	1	2	1	2	1	1			1	1	1	1	2	2
Mercury	1	1	1	1	1		1	1	1	1					1	1	1	1
Methane					1	1	1	1	1	1			x	x	1	1		
Methyl acrylate							1	2	1	1							1	1
Methyl alcohol 6%	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Methyl amyl	1	2	1	2	2	x	1	2	1	1	1	2	2	2	1	1	1	1
Methyl bromine	x	x	x	x					x	x					1	1	x	x
Methyl chloride	x	x	x	x	x	x	x	x	x	x	1	x	x	x	1	1	x	x
Methyl ethyl ketone	x	x	x	x	x	x	1	x	2	x	1	1	2	2	1	1	2	2
Methyl isobutyl ketone	x	x	x	x	x	x	2	x			1	2	2	2	1	1		
Methyl methacrylate	x	x	x	x	x	x	1	x	1	1			2	2			1	1
Mineral oil	x	x	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
Monochlorobenzene	x	x	x	x	x	x			x	x			x	x	1	1	x	x
Naphtalene	x	x	x	x			2	x	1	2			x	x	1	1	x	x
Naphtha (light oil)	x	x	x	x			1		1	x	1	1			1	1		
Natural gas	1	1	1	1	1		1	1	1						1	1		
Nickel chloride	1	1	1	1	1	2	1	2	1	1			1	1	1	1	1	1
Nickel nitrate	1		1		2				1				1	1	1	1	1	
Nickel sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1	1	1
Nitric acid 25%	1	x	1		x	x	2		1	1			x	x	1	1	1	1
Nitric acid 40%	2	x	2		x	x	2		1	2			x	x	1	1	1	2
Nitric acid 60%	x	x	x		x	x	x	x	2	2	x	x	x	x	1	1	2	2
Nitrogen	1	1	1	1	1	1	x	x	1	1					1	1	1	1
Nitrogen peroxide							1	2					2	2	1	1		
Nitromethane	x	x	x	x			x	x							1	1		
Octylsebaceate	x	x	x	x			1	x							1	1		
Oil n°1	x	x	1	2	1	1	1	1			1	1	1	1				
Oil n°2		x	1	x	1	2	1	1	1									
Oil n°3	x	x	1	2	1	2	1	2					1	1				
Oleic acid	x	x	x	x	2	x	1	2	1	1			x	x	1	1	1	1
Ortho-dichlorobenzene	x	x	x	x	x	x	x	x			1		x	x	1	1		
Oxalic acid	x	x	x	x	x	x	2	x	1	1	1	1			1	1	1	1
Ozone	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Palmitic acid	x	x	x	x	1		1	1	1	1	1	2	1	1	1	1	1	1
Paradichlorobenzene	x	x	x	x	1		x		x	x	2	x	x	x	1	1	x	x
Paraformaldehyde					x	x					1		1	1	1	1		
Pentane	2		1						x	x			x	x	1	1	x	x
Perchloric acid	1		1		x	x			1				1	1	1	1	2	
Perchloroethylene	x	x	x	x	2	x	x	x	x	x	2	x	x	x	1	1	x	x
Petrol	x	x	1	2	1	2	1	2	2	x	1	1	2	2	1	1	2	x
Phenol	x	x	x	x	x	x	x	x	2	2	x	x	1	1	1	1	2	2
Phenylhydrazine	x	x	x	x			1	2	x	x					1	1	x	x
Phosphoric acid 30%	1	1	1	1	2	x	2	x	1	1			1	1	1	1	2	2
Phosphoric acid 85%	1		1		x	x			1		1	2	x	x	1	1	2	2
Picric acid (water sol'n)					x	x	1	x	1	1			1	1	1	1	2	2

	A		B		C		D		E		F		G		H		I	
	PVC				Polyurethane		Polyester		Polyethylene		Polyamid 12		Silicone		PTFE		PE elastomer	
	Standard and Tricoclair		Special chemical formula		Nobelair PU, Technobel PU, PU calibrated tube		Technobel,		Profiline Aqua Plus		PA calibrated tube		Vitryl		PTFE Tubes		SpirAqua Plus	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Potassium (in water) 10%	1	x	1	x	2	x	x	x	1	1	1	1			1	1	1	
Potassium bicarbonate	1		1		2				1				1	1	1	1	1	
Potassium borate	1		1		1		1	1	1				1	1	1	1	1	
Potassium bromine	1		1		1		1	1	1	1	1	1	1	1	1	1	1	1
Potassium carbonate (potash)	1		1		x	x	1	2	1	1	1	2	1	1	1	1	1	1
Potassium chlorate	1		1		2				1	1			2	2	1	1	1	1
Potassium chloride	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Potassium cyanide	x	x	x	x	x	x	1	2	1	1			1	1	1	1	1	1
Potassium dichromate					2				1	1			1	1	1	1	1	1
Potassium hydroxide	1	2	1	2	2	x	x	x	1	2	2		x	x	1	1	1	1
Potassium nitrate	1		1		1				1				1	1	1	1	1	1
Potassium permanganate 10%	1		1		2	x			1	1	x	x	1	1	1	1	1	1
Potassium sulphate	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Potassium sulphide	1		1		1				1				x	x	1	1	1	
Propane	x	x	x	x	1	1	1	1	1	1	1	1	x	x	1	1		
Propylene							1	1							1	1		
Propylene oxide	x	x	x	x			x	x					x	x	1	1		
Pure acetic acid	x	x	2	x	x	x	x	x	x	x	x	x			1	1	x	x
Pyridine	x	x	x	x	x	x	x	x	2	x	2	x	2	2	1	1	1	1
Sea water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Seed oil					2				x	x			1	1	1	1		
Silicone oil	x	x	1	2	1	1	1	1	1	1			1	1	1	1		
Silver nitrate	1		1		1				1		1	1	1	1	1	1	1	
Soda (water in) 10%	1	x	1	x	2	x	x	x	1	1	1	2	1	1	1	1	1	1
Sodium acetate	1	1	1	1	1	2	1	2	1	1			1	1	1	1	1	1
Sodium bicarbonate	1		1		2		1	x	1				1	1	1	1	1	
Sodium bisulfate	1	1	1	1	x	x	1	x	1				1	1	1	1	1	
Sodium carbonate	1		1		1	2	1	2	1	1			1	1	1	1	1	1
Sodium chlorate	1		1		2		x	x	1	1	x	x	1	1	1	1	1	1
Sodium chloride	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Sodium cyanide	1	2	1	2	x	x	1	2	1	1			1	1	1	1	1	2
Sodium fluoride	1		1		2				1				2	2	1	1		
Sodium fluoride aluminate 10%	1		1		2				1				2	2	1	1		
Sodium hypochlorite 15%	1	x	1	x	2	x	x	x	1		x	x	2	2	1	1	1	
Sodium hypochlorite 30%	1	x	1	x	x				2		x	x	x	x	1	1	2	
Sodium hyposulfite	1	1	1	1	2	x	x	x	1	1			1	1	1	1	1	1
Sodium nitrate	1	1	1	1	1	2	1	x	1	1			1	1	1	1	1	1
Sodium nitrite					1				1		1	1	1	1	1	1	1	
Sodium perborate	1		1		x	x	1	x	1	2					1	1		
Sodium peroxide	1	1	1	1	x	x	x	x					x	x	1	1		
Sodium phosphate	1	1	1	1	2		1	x	1	1	1	1	1	1	1	1	1	1
Sodium silicate	1	1	1	1	2	x	1	2	1	1	1	1	1	1	1	1	1	1
Sodium sulphate	1	1	1	1	1	2	1	2	1	1			1	1	1	1	1	1
Sodium sulphide	1	1	1	1	1		1	2	1	1	1	2	1	1	1	1	1	1
Stearic acid (Fatty acid)	1	1	1	1			1	2	1	1			2	2	1	1	1	1
Styrene	x	x	x	x	2	x	x	x	2	2			2	2	1	1	2	2
Sulfamic acid 10%	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1
Sulfur chloride	x	x	x	x	1	2	2	2	x	x			x	x	1	1	x	x
Sulfur dioxyde	1		1		x	x			1	1			2	2	1	1	1	1
Sulfur trioxide	1		1		2				1	x			x	x	1	1	x	x
Sulfuric acid 10 to 30%	1	1	1	1	2	x	2		1	1	2	x	2	2	1	1	1	1
Sulfuric acid 40 to 98%	x	x	x	x	x	x	x	x	1	x	2	x	x	x	1	1	2	x
Sulfurous acid 10%	2		2		2				1	1	1	1	x	x	1	1	1	1
Sulfurous acid 75%	x	x	x	x	x	x			1	1			2	2	1	1	1	1
Tartaric acid	1		1		1		1	2	1	1			1	1	1	1	1	1
Tetrahydrofuran	x	x	x	x	x	x	x	x	x	x	1	2	x	x	1	1	x	x
Tetraline	x	x	x	x			1	x	2	x	1	2			1	1		x
Thiosulphate sodium	1	1	1	1	2		1	x	1	1			1	1	1	1	1	1
Tin chloride	1	1	1	1	1	2	x	x	1	1			x	x	1	1	1	1
Toluene	x	x	x	x	x	x	2	x	1	2	1	2	2	2	1	1	1	2
Trichloro ethane	x	x	x	x	x	x	x	x			2	x	x	x	1	1	x	x
Trichloro ethylene	x	x	x	x	x	x	x	x	x	x	2	x	x	x	1	1	x	x
Tricresyl pholphate					2		2	x	1	1							1	1
Trithanol amine	1	1	1	1			x	x							1	1		
Turpent petrol	x	x	1	2	2	x	2	x	2	x	1	1	x	x	1	1	2	x
Unleaded gas	x	x	1	2	1	2	1	2	1	2	1	1			1	1	2	x
Urea 30-50%	1	x	1	x			1		1	1	1	1	1		1			
Vinyl acetate	x	x	x	x			1	2	1	1					1	1	1	1
Vinyl chloride	x	x	x	x	x	x			1	1			x	x	1	1	1	1
White spirit	x	x	x	x	1	x	x	x	x	x					1	1	x	x
Xylene	x	x	x	x	x	x	2	x	1	x	1	2	2	2	1	1	1	2
Zinc chloride	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1
Zinc sulphate	1	1	1	1	1	2	1	1	1	1			1	1	1	1	1	1

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176202	SPIRABEL MDSF AL VERT 151-20M	84
176247	SPIRABEL MDSF AL VERT 105-30M	84
189782	VITRYL 3x5 - 25 M	52
189795	VITRYL 4x6 - 25 M	52
189801	VITRYL 5x8 - 25 M	52
189814	VITRYL 6x9 - 25 M	52
189830	VITRYL 8x12 - 25 M	52
189843	VITRYL 10x14 - 25 M	52
189856	VITRYL 12x17 - 25 M	52
189869	VITRYL 15x21 - 25 M	52
189885	VITRYL 20x27 - 25 M	52
190710	SPIRE ACIER 102 - 20 M	88
190785	SPIRE ACIER 32 - 30 M	88
190798	SPIRE ACIER 38 - 30 M	88
190813	GAINE GA 1 25 - 30 M	92
190826	GAINE GA 1 30 - 30 M	92
190839	GAINE GA 1 35 - 30 M	92
190842	GAINE GA 1 40 - 30 M	92
190855	GAINE GA 1 50 - 30 M	92
190913	GAINE GA 1 38 - 30 M	92
190926	GAINE GA 1 63 - 30 M	92
191664	SPIRABEL SI 20 - 50M	79
192689	TRESS-NOBEL 25 x 35 - 25M	42
192692	TRESS-NOBEL 25 x 35 - 50M	42
192724	TRESS-NOBEL NOIR MAT 8 - 100M	42
192753	TRESS-NOBEL NOIR MAT 10 - 100M	42
192908	TRESS-NOBEL NOIR 16 - 50M	42
194255	PRIMABEL 900 JAUNE 19 - 50M	68
194268	PRIMABEL 900 JAUNE 25 - 25M	68
194271	PRIMABEL 900 JAUNE 25 - 50M	68
194297	PRIMABEL 900 JAUNE 30 - 50M	68
195821	TRESS-NOBEL NOIR 12 x 20 - 50M	42
196037	TRESS-NOBEL NOIR 19x28 - 50M	42
198022	SNA 6,3 x 11 - 50M	31
198051	SNA 7 x 12 - 25M	31
198093	SNA 8 x 13 - 25M	31
198106	SNA 8 x 13 - 50M	31
198119	SNA 8 x 13 - 100M	31
198148	SNA 9 x 14,5 - 50M	31
198177	SNA 10 x 15,5 - 25M	31
198180	SNA 10 x 15,5 - 50M	31
198212	SNA 12,7 x 19 - 25M	31
198225	SNA 12,7 x 19 - 50M	31
198238	SNA 12,7 x 19 - 100M	31
198254	SNA 16 x 23 - 25M	31
198267	SNA 16 x 23 - 50M	31
198296	SNA 19 x 26,5 - 25M	31
198309	SNA 19 x 26,5 - 50M	31
198312	SNA 19 x 26,5 - 100M	31
198338	SNA 25 x 33,5 - 25M	31
198341	SNA 25 x 33,5 - 50M	31
198438	TRESS-NOBEL 8 x 14,5 - 25M	42
198467	TRESS-NOBEL 9 x 16 - 50M	42
198496	TRESS-NOBEL 10 x 17 - 25M	42
198509	TRESS-NOBEL 10 x 17 - 50M	42
198512	TRESS-NOBEL 10 x 17 - 100M	24
198531	TRESS-NOBEL 12 x 20 - 25M	24
198544	TRESS-NOBEL 12 x 20 - 50M	42
198557	TRESS-NOBEL 12 x 20 - 100M	42
198599	TRESS-NOBEL 16 x 24 - 25M	42
198602	TRESS-NOBEL 16 x 24 - 50M	42
198631	TRESS-NOBEL 19 x 28 - 25M	42
198644	TRESS-NOBEL 19 x 28 - 50M	42
198660	TRESS-NOBEL 8 x 14,5 - 50M	42
198673	TRESS-NOBEL 8 x 14,5 - 100M	42
198699	TRESS-NOBEL 6,3 x 12,5 - 50M	42
198815	TRESS-NOBEL NOIR 25 x 35 - 50M	42
2486 3460	MINIREEL PRO 8MM	13
2491 0000	AUTOREEL PRO	12
2493 1240	WATER REEL PRO	14
5102P0000	VITON 1,25L SPRAYER	16
5505 0000	VITON 5L SPRAYER	16
5507 0000	VITON 7L SPRAYER	16
5510 0000	VITON 10L SPRAYER	16

SALES TERMS AND CONDITIONS (STC)

DEFINITIONS

For the purpose of this Agreement, the following words shall have the following meanings:

- "Client": means any individual or company who/which orders Products from the Supplier in the course of its professional activity.
- "Order" : means any order resulting in one or more deliveries, issued by the Client.
- "Supplier ": means TRICOFLEX company.
- "Party ": means the Client and/or the Supplier individually.
- "Parties ": means the Supplier and the Client collectively.
- "Products": means any product, material and / or equipment, and / or component and / or spare parts and / or accessories manufactured and / or marketed by the Supplier.

1 - SCOPE

These Sales Terms and Conditions (STC) constitute the sole basis of the commercial negotiation with the Client.

These STC include these General Terms and Conditions of Sale and the Annexes which are expressly approved and accepted by the Client, who declares and recognizes to have a perfect knowledge of.

Any Order of Products implies the unconditional acceptance by the Client and its full and entire adhesion to these STC. The acceptance of the Supplier's STC shall automatically imply the non-application of any other General Conditions of Purchase or Sale derogating therefrom, except with the express written agreement of the Parties. These STC cancel and replace any other prior documents with the Client.

The fact that the Supplier does not avail itself at a given moment of any of the clauses hereof may not constitute a waiver of these clauses.

The Supplier may modify the present STC at any time by giving one month's notice.

2 - ORDERS

2.1 – Orders acceptance

Any Order becomes definitive and only binds the Supplier after acceptance and written confirmation sent to the Client by the Supplier.

Any Order placed by telephone must be confirmed by the Client to the Supplier in writing.

2.3 – Cancellation and refusal of an Order

Any cancellation of an Order requested by the Client can only be taken into account if it has been received in writing by the Supplier.

In the event of an Order's cancellation or suspension by the Client after acceptance of this one by the Supplier, the Supplier shall invoice the Client for an indemnity equal to 15% of the amount of the Order

In the event that a Client places an Order with the Supplier, without having paid for the previous Order (s), the Supplier may refuse to honor the Order and to deliver the concerned Products. The Client will not be able to claim any compensation for any reason whatsoever.

3 - DELIVERY

3.1 - Terms of delivery

Deliveries are made within the time specified in the Order's acceptance. Delivery times are indicative and depend on the Supplier's supply and transport possibilities.

The Supplier endeavors to respect the delivery time indicated on the acceptance of the Order.

Exceedances of delivery times may in no case give rise to damages, cancellation of Orders in progress, or non-payment of invoices due.

3.2 - Reception

It is the Client's responsibility to check the Products upon receipt.

In the event of damage or partial loss, the Client must make immediately all the necessary reservations and confirm them, in accordance with Article L. 133-3 of the Commercial Code, within three (3) days of the receipt of the Products, including public holidays, by extrajudicial act or registered letter with acknowledgment of receipt to the carrier.

A copy shall be sent to the Supplier at the same time.

It is the Client's responsibility to provide all justifications to prove the reality of the defects found.

The Supplier should have the opportunity to proceed to the detection of these defects in order to be able to remedy them, if they are its fault.

Reception without any reservation or not meeting the above conditions covers any apparent defects and / or any loss. The Products will be deemed accepted by the Client.

3.3 – Risk of loss

The Products are sold and approved in the Supplier's factories, regardless of the shipping method, carriage due, advanced or free shipping.

The Products are travelling at the risk and peril of the Client. The Client undertakes to insure, at its own expenses, the Products against the risks of loss and deterioration by taking an insurance for the benefit of the Supplier.

It is the Client's responsibility to:

- check, at the time of delivery by the carrier, that the Products have not suffered of any damage during transport,
- safeguard its rights vis-à-vis the carrier in accordance with the legal provisions in force and within the required time and,
- exercise, if necessary, directly his recourse against the carrier.

The Client has sole quality to make reservations with the carrier in the event of damage, loss or delay in delivery, in the forms and time prescribed by the Code of Commerce, in accordance with Article 3.2 hereof.

3.4 - Return costs

After checking, in the event of discovery of a defect or loss by the Supplier, the Client may only request the replacement of non-compliant items and / or the supplement to fill the gaps at the expense of the Supplier.

The Client will not be able to claim any compensation or ask for the sale's resolution. Only the carrier chosen by the Supplier is authorized to return the concerned Products.

In all other cases, any return of Products must be subject of a written agreement with the Supplier. The costs and risks of return will be borne by the Client.

Any return made without the express consent of the Supplier will not give rise to any refund or credit.

3.5 - Suspension of deliveries

In the event of non-payment in full of an invoice due, the Supplier may suspend any delivery in progress and / or future.

4 - PRICE – TERMS OF PAYMENT

4.1 - Price

Rates may be revised at any time and will be communicated one (1) month in advance to the Client.

The prices, expressed before tax and in euro or in foreign currency, are those in force at the time of the Order.

4.2 - Terms of payment

The invoice is issued at the time of shipment of the Products.

All invoices are payable to the accounting department of Vitry--le-François. The payment terms are those shown on the Order Acknowledgment, by default the invoices are payable 45 days end of the month

No discount for early payment will be granted.

Any late payment will entail by right and without any formal notice being necessary delay penalties equal to the interest rate applied by the European Central Bank (ECB) to its most recent refinancing operation plus 10 percentage points as well as the payment of a lump sum compensation for recovery costs of 40 euros per invoice. When the recovery costs incurred exceed the amount of this lump sum indemnity, the Supplier reserves the right to request additional compensation, upon justification

In addition to the aforementioned late payment interest and lump sum payment, in the event of late payment, the Supplier reserves the right to require the Client to pay compensation equal to 15% of the total amount outstanding, as damages. This clause will apply without the Supplier having to justify the importance and nature of its damage.

In the event of late payment, the Supplier reserves the right to suspend all deliveries in progress and / or to refuse to honor future Orders without the Client being able to claim any compensation.

5 - RETENTION OF TITLE

The transfer of ownership of the Products will only be made after payment of the full price by the Client, in principal and accessories.

The Supplier may exercise the rights it holds under this clause for all of its Products held by the Client for any of its claims.

The Client must ensure the conservation of the Products delivered during the retention period.

The Client agrees to:

- insure, at its own expenses, the replacement of the delivered and unpaid and destroyed Product or to pay the price immediately;
- show separately in its accounting records, the nature and value of the Product which has been the subject of a reservation of title clause;
- not to pledge the delivered and unpaid Products, nor to transfer the property as guarantee;

- inform the Supplier immediately of the seizure, requisition or confiscation of the delivered and unpaid Product and of the sale, transfer or pledge of its business to a third party;
- immediately notify the Supplier in the event of resale of the Products, to enable the Supplier to exercise his right of claim on the price towards the End User.

In the event of total or partial non-payment of the price at the due date for any reason whatsoever, the Supplier may demand, by right and without formality, the return of the Product, at the expense and risk of the Client.

6 - QUANTITIES

The Supplier reserves a margin of plus or minus 10% on the quantity ordered, except for standard articles. Prices are established for continuous manufacture of the quantity indicated by the proposal. Claims for quantities delivered may only be considered if presented to the Supplier within two (2) business days after receipt of the shipment.

7 - WARRANTY

The Supplier's liability is strictly limited to the replacement, pure and simple and number for number, of the Products that the Supplier has recognized as non-compliant and which have been returned free of charge to the Supplier's factories in their original condition, within fifteen (15) days from the arrival of the Products at the Client's premises, without the Supplier having to bear any other damages whatsoever.

According to custom, it is the Client's responsibility to check the compatibility of the articles (permeability, solubility, organoleptic characteristics, etc.) with regard to food products, with which they are called upon to come into contact and to verify the good preservation of these ones.

Any defects and deteriorations resulting from abnormal storage and / or storage conditions at the Client's premises will not be eligible for the warranty due by the Supplier.

No liability of the Supplier can be incurred for any damage suffered by the Client, in case the Products sold are stored, by the Client and / or its subcontractors or service providers, under abnormal conditions or incompatible with their nature and Supplier's instructions.

The Supplier does not cover damage and wear resulting from special adaptation or mounting, abnormal or not, of its Products except if it has been carried out under its supervision.

In any case, the Supplier's warranty is limited to the replacement of the Products found to be defective for a reason for which the Supplier would be expressly and adversely responsible.

8 - FORCE MAJEURE

There is Force majeure where an event beyond the control of the debtor, which could not be reasonably have been foreseen at the time of the conclusion of the contract and whose effects could not be avoided by appropriate measures, and which prevents performance of his obligation by the debtor.

Are notably assimilated to cases of force majeure or fortuitous discharging the Supplier of its obligation: the strikes of all or part of the staff of the Supplier or its habitual carriers, the fire, the flood, the war, thus that any other cause of supply breakdown that is not attributable to the Supplier.

In such circumstances, the Supplier will notify the Client in writing within seventy-two (72) hours of the date of occurrence of the events.

If the impediment is temporary performance of the obligation is suspended by right and without compensation. If the event lasts beyond thirty (30) calendar’s day period from its manifestation, the present Agreement may be automatically terminated by the most diligent Party, without either Party being eligible for damages.

9- RETURN OF PRODUCTS

The complaints concerning the delivered Products will be receivable by the Supplier only if they are presented by registered letter with acknowledgment of receipt within a period of fifteen (15) days from the arrival of the Products at the Client.

In the event of dispute over Products delivered by the Supplier, it is agreed that the Supplier will have ten (10) days after the receipt of the Client's complaint to proceed, eventually on the spot, to the necessary findings and examinations. No return of Product used or processed in any way whatsoever, will be accepted by the Supplier. When the Supplier accepts returns of Products, it may only consent to a Credit if such Products have reached the Supplier in good condition, without having been used and after verification and acceptance by the Supplier in its stores. The Supplier reserves the right to apply a minimum discount for administrative costs, excluding any costs of control and repackaging.

10 – RESPONSIBILITY

The Supplier shall under no circumstances be held liable, for any reason whatsoever, for any direct or indirect damage resulting from the defect or non-conformity of a Supplier's Product.

11 - CONFIDENTIALITY

The Parties undertake not to disclose to anyone any information provided by the other Party, directly or indirectly in writing or orally, including any document, prototype, technical specification or plan, know-how, any material, formula ...

This confidentiality obligation must be respected by each Party, their employees and their potential subcontractors for the duration of the business relationship and the two (2) years following the end of the relationship.

The obligation of confidentiality does not apply to information that is or will become public domain, that is already known before placing the Order, that is disclosed or used by either Party with the prior written consent of the other Party, that is lawfully received from a third party, that has to be disclosed to a judicial or administrative authority.

12 - ANTI-CORRUPTION

In carrying-out the supply, the Supplier hereby undertakes to strictly comply with applicable laws prohibiting the bribery of public officials and private persons, influence peddling, money laundering. The Supplier undertakes to put in place and implement all necessary measures to prevent corruption. The Client accepts to comply with all applicable anticorruption laws. The Client shall not especially: (a) use any money or other things of value paid by the Client for purposes that violate Anti-corruption Laws, and (b) directly or indirectly, offer, promise, give, solicit or accept monies or other things of value to or from a public agent, government-owned or government-controlled commercial entities, a political party or any other person, individual or entity, with the objective to or retain business or secure any improper commercial or financial advantage or to influence any act or decision.

13 - DATA PROTECTION

For the sole purpose of the agreement, the Supplier can collect and proceed the personal data of the Client.

As such, the Supplier undertakes to ensure that the processing is carried out in accordance with the law.

The Supplier shall not exploit and use the personal data for its own or for the account of a third party, unless instructed otherwise by the Client. The Supplier shall keep the collected data throughout the duration of the contract and for five (5) years after its termination. At any time, the Client shall have the right to access, rectify, delete, oppose, data portability, restrict processing and define the personal data proceeding post mortem by e-mail at the following address: m.bradmetz@tricoflex.com

The Client may also lodge a complaint with the « Commission nationale de l’informatique et des libertés » : 3 Place de Fontenoy, 75007 Paris (www.cnil.fr)

14 - DISPUTES

Any dispute relating to the application and / or interpretation of the prices, the Supplier's Terms and Conditions, the commercial cooperation agreements to which the Supplier is party, will no longer be admissible after the establishment of the balance of the conditions of the concerned year and, failing that, beyond a period of 12 months, following the end of the year in which these documents were in force.

15 – GOVERNING LAW AND JURISDICTION

These STC and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation shall be governed by and construed in accordance with the laws of France**.**

Any dispute arising from the interpretation or performance of these STC will be, in in case no settlement can be reached through consultation of the exclusive competence of the commercial court of the place of the Supplier’s head office

16- APPENDICES

These APPENDICES are an integral part of these Terms and Conditions.

APPENDIX 1- Unit Price Schedule (or Price List)

“A la carte” hose

We manufacture customize hoses. Follow the 4 stages below and use the form printed on the other side of this page to place your order, or download it online at www.tricoflex.com.

1 Specify the hose type depending on intended use.

Transported fluid	Adapted hoses
Water	Tricoclair AL, Tricoclair industrie, TCF, Super Nobelair Soft, Super Nobelair, Technobel PU, Tress-Nobel 40, Technobel
Compressed air	Tricoclair AL, Tricoclair industrie, TCF, Super Nobelair Soft, Super Nobelair, Tress-Nobel 40, Technobel
Fuels & oils	Technobel PU, Technobel
Food products	Tricoclair AL, TCF

Hose	Page	Hose	Page
Tricoclair AL	18	Super Nobelair	31
Tricoclair industrie	20	Technobel PU	47
TCF	21	Tress-Nobel 40	42
Super Nobelair Soft	30	Technobel	48

2 Set the size that suits you in the technical data table for the selected hose.

The table below shows the minimum order quantities depending on the chosen internal diameter.

Inner diameter (mm)	4 & 5	6,3	6	7	8 & 9	10	12,7	12 & 13	15 & 16	19	20	25
Mini of order (m)	7 500	7 000	5 500	5 000	4 500	4 000	3 500	2 500	2 000	1 700	1 500	1 000

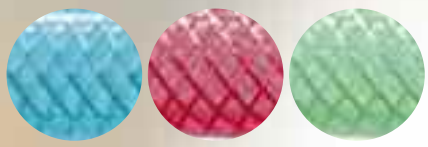
3 Color

Choose from the following colors for your hose :

black | dark grey | light grey | white | blue | red | beige | orange | green | yellow

Translucent hoses can be tinted blue, red, or green while retaining their transparency.

Non-contractual colors



4 Marking. Specify the information you would like us to print on your hose. (100 characters maximum, including spaces and pictograms)

Fill out the purchase order on the other side of this page (or print it from the website).
For more information, please contact our sales manager responsible of your geographical area.

“A la carte” hose order form

To be returned to your local Sales Manager (downloadable file on our website www.tricoflex.com)

Company informations

Company

Phone

Contact

Email

Address

Postal code / Town

Country

Hose selection

Type of hose (check one box per feature)

- Tricoclair AL
- Tricoclair Industrie
- TCF
- Super Nobelair
- Super Nobelair Soft
- Technobel
- Technobel PU
- Tress-Nobel 40 bar

Colour of hose

- Transparent
- Crystal
- Blue
- Red
- Green

Opaque

- Black
- Dark grey
- Light grey
- White
- Blue
- Red
- Beige
- Orange
- Green
- Yellow

Choose the finish

- Matt
- Shiny

(Inner diameter) mm

Length per coil/reel meters (15<meters<100)

Marking (max 100 characters)

Quantity and price

Total quantity (length x coil/reel)

Agreed price/m

Date of demand

Provided that the order form is fully and correctly filled in, please allow four to five weeks for delivery from the date the email is sent.