TecAlemit flexibles™

1922

Tenir au Temps

HYDRAULIC HOSES
PROTECTION SHEATHS

TecaLemit flexibles™

Tenir au Temps

Tecalemit Flexibles® , with its strong brand name and patents, driven and supported by professionals, is your security-guaranteed supplier of flexible pipes and tubes, hoses and fittings provided by three departments.

SEL TecaLemit™

Rubber hoses, PVC hoses, protection sheaths, fittings SEL TECALEMIT®

flexibles TecaLemit™

Hydraulic hoses, protection sheaths, systeme of flexibles reassured Protecalan

tubes TecaLemit™

Technical tubes, spiralled tubes, multitubes, connectors & accessories tubes

Historic TECALEMIT FLEXIBLES®

E.Piquerez

J.Christe

Emile Piquerez had invented his famous forced lubrication with a simply attached coupler clip and given it the name “THÉCLA”.
As for Joseph Christe, he had struck an agreement in the United States with the company “ALEMITE” through which the Piquerez patents were sold to this company for America in exchange for its own lubrication patents with bayonet connector for Europe.
This was the starting point of the company TECALEMIT, its offices, shops, workshops and service stations were set up by its two founders 18 Rue de Brunel in Paris in May 1922.
The name “TECALEMIT”, a combination of “THÉCLA” and “ALEMITE”, was to remind users of forced lubrication that they would find here devices by both brands.
Car owners came in their droves to get their lubricators replaced in only 15 or 20 minutes for just 100 Francs, which at the time was about £5 or $20.
But TECALEMIT did not rest on its laurels. From the lubrication pump with a flexible hose and coupler clip, they moved on to the pushing pump with rigid hose and articulated clip, then onto LUB and ZERK lubrication, and finally to an even more perfected system that is still used today in almost all cars and machines built anywhere in the world: the “Hydraulic” system.
1946 saw the first “TELECAMIT” rubber hoses with crimped connections, then the flexible pipework “TECALEMIT-AEROQUIP” with dismountable connections were released in 1950, followed by flexible polyamide 11 pipes or flexible polyurethane 12 pipes that were manufactured in the Orly plant under the brand name Tecalan® from 1961.
In 1972, a factory fully dedicated to these products was built in Blois, where TECALEMIT FLEXIBLES® (brand registered in 1980) had its head office Avenue de Châteaudun.
In January 2006, all activities, except those dedicated to aerospace, were transferred to Pont l’Abbé, Route de Combrit, in Brittany.
Tecalemit Flexibles, ISO 9001 certified and with its approved economic operator status, offers a complete range of pipework and hoses with dismountable or crimped connections for remote hydraulic controls in addition to all the pneumatic tubes manufactured in Pont l’Abbé under the brands MANURIL® , MANULAN® and MALUFORM® .
All these devices where primarily designed for the automotive market but have also conquered aviation, railways, the marine, civil engineering and the industry as a whole.

Y. Tromelin , the President of TECALEMIT FLEXIBLES®

The sister companies Sel-Tecalemit and Tecamec are located only 800m away from the complete technical and sales offer.
Sel-Tecalemit designs and manufactures flexible elastomer hoses used to transfer fluids in industry.
The company has approved economic operator status and is ISO 9001 certified and also benefits from authorisations from DREAL (French Environment, Development, and Housing Directorate) via its AFNOR certification to manufacture hoses for dangerous substances for clients in civil defence.
Tecamec manufactures connectors, hose caps and standoffs, as well as flexible hoses in stainless steel. These products are aimed at civil defence, welding, and energy industry (oil & gas, nuclear, off-shore rigs, FPSO LNG), civil engineering, sewers, and the steel industry.

Aerial view of the town of Pont l'Abbé

Photo Credit Claude BUHANNIC

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TABLE OF HYDRAULIC HOSES TECALEMIT FLEXIBLES®

TECHNICAL GUIDE TECALEMIT FLEXIBLES®

This technical guide is intended for the selection, storage, use and maintenance of TECALEMIT FLEXIBLES® hoses.

Introduction
This guide gives TECALEMIT FLEXIBLES® recommendations concerning choice and conservation of elastomer and thermoplastic hose as much before as during use, in order to obtain maximum life span in conditions of optimum safety.
Moreover, TECALEMIT FLEXIBLES® is at customers' disposal for information concerning the evolution of pertinent standards and rules.

Preface : reminder on hose structure
A hose has 3 main components :
- An inner tube, for oiltightness, is made from homogenous polymer with excellent resistance to the product conveyed.
- A reinforcement giving the hose its physical and mechanical properties : resistance to pressure, to vacuum, resistance to kinking, tensile strength.
This reinforcement can combine several technical solutions to adapt to conditions of use : textile or metal braiding or spirals, plastic or metal spirals, cable spirals, electrical conductors.
More over, it guarantees the dimensional shape of the inner tube, thereby contributing to tightness of the hose.
- The outer cover is made from homogenous polymer and destined to isolate the reinforcement from the environment.

1 Selection of a hose

1 1 General criteria :

The user or prescriber should take the following aspects into consideration :
Environment :
- Safety of operators.
- Protection of the environment.
- Ambient temperature.
- Atmospheric conditions.
- Risk of impacts or abrasion.
- Presence of corrosive products.

State of product conveyed :
Liquid, gaseous, solid or a combination of same.
Method of use :
By suction, pressure or assisted.
Conditions of use :
Pressure and temperature of fluid, pressure surges, pressure peaks, frequency of use.
Characteristics of installation :
- Imposed bend radius.
- Vibrations.
- Strains.
- Flexions.
- Acceptable fittings.

The rest of this guide deals more with hydraulic hose up to inner diameter 2" (50,8mm) for oleo-hydraulic power applications and transport of gaseous fluids under high pressure.

TECHNICAL GUIDE TECALEMIT FLEXIBLES®

1 2 Inner diameter of a hose :

Expressed in millimetres and fractions of an inch as well as in Dashs (dash-sizes). These are equal to 1/16 of an inch for all our hoses except for hose type SAE100 R5 (our hose types T510 and T511).
The inner diameter of a hose is without doubt the first criterion to choose.
Choosing a diameter too small would have for effect :
- heating of the installation via the joule effect due to overspeeding of the hydraulic fluid flow.
- important pressure drops.
- loss of efficiency and premature wear of hydraulic pumps (suction).

Choosing a diameter too large would unnecessarily increase weight, size and cost of the installation.
Choosing the right inner diameter of hose is therefore primordial.
The table on page 15 is destined to help you determine hose inner diameter. It gives pressure drops for standard oil.
The abacus on page 16 (standard diameter) : speed of fluid / inner diameter / flow rate reinforces it and indicates recommended values for suction and delivery.
Part of the energy necessary for the transfer of fluid in the hose is lost through friction : it is called pressure drop. This is proportional to the speed of the fluid at low speeds. At higher speeds it becomes proportional to the square root of the speed and therefore excessive.
The limit between these two possibilities is identifiable by the Reynolds number which must be inferior to 2300 for the flow to be satisfactory.

$$\text{Reynolds number} = Re = v.D/nu < 2300$$

v = speed of fluid in millimeters per second
D = inner diameter of hose in millimeters
nu = kinematic viscosity in centistokes
When the Reynolds number is lower than 2300, it is said to be laminary, when it is between 2300 and 3000 it is called transitory and for values above, it is said to be turbulent.

1 3 Working pressure :

Expressed in bar with the abbreviation WP.
Tecalemit Flexibles hoses are designed and produced to work continuously at the working pressures indicated on each data sheet and repeated in the table by diameter and type.
As an idincation, it is considered that using a hose at 20% higher pressure than recommended reduces life span by half. The table on page 17 and 22 facilitates the choice of the hose according to working pressure.

1 4 Test pressure :

Expressed in bar with the abbreviationTP.
Test pressure is generally twice the working pressure, it should be maintained for over 30 seconds without exceeding 15 minutes.

1 5 Overpressure, pressure surges :

Hydraulic circuits generally present pressure surges and/or temporary overpressures whose values exceed the nominal admissible pressures for the majority of the circuits components.
In this case, it is necessary to increase the safety factor, which is usually 4, between the working pressure and the theoretical burst pressure.
This safety factor can be reduced to 3.15 if no pressure surges are present.

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1 6 Burst pressure :

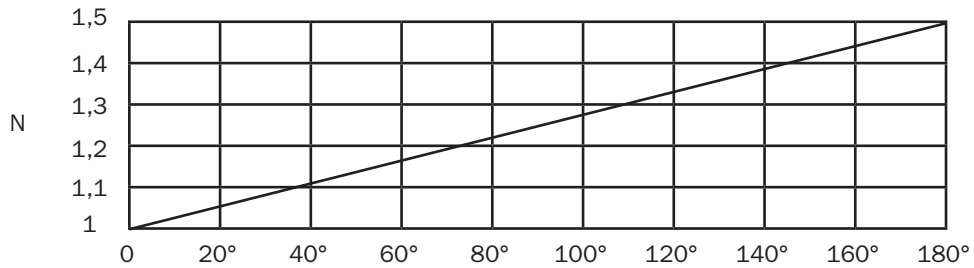
Expressed in bar with the abbreviation of BP.
The values indicated on TECALEMIT FLEXIBLES® data sheets are before bursting.
They are guaranteed for hoses having never been in use and equipped with fittings in the preceeding month.

1 7 Working temperatures :

The temperatures specified in TECALEMIT FLEXIBLES® data sheets are the maximum admissible working temperatures for the hose with standard hydraulic oil.
It can be considered that 10°C higher in temperature can halve the life span.
For other fluids, please contact our technical department, as the maximum admissible temperature could be higher or lower than indicated.
It is strongly advised not to use hoses at maximum pressures and temperatures at the same time.
Hose assemblies can be used in different ambient temperatures after having been protected by an adequate heat-resistant sheath, without which the outer cover would be subjected to premature aging, harden and become brittle.

1 8 Bend radius :

Expressed in millimeters, bend radii are indicated by measuring from the centreline of the hose, at maximum working pressure and without flexing of the hose.
Should there be flexing of the hose, minimum bend radius should be increased by the multiplication factor N in the table below.
A lower bend radius can be acceptable, provided the working pressure is lowered.



1 9 Tensile strength :

Any pulling forces must be made in the centreline of end-fittings.
Only hoses with metal reinforcement can sufficiently resist off-centreline pulling forces.
Pulling forces should be avoided on suction hoses incorporating a wire spiral as well as hoses intended to transmit power via hydraulic oil.
Effect to reduce admissible working pressure and the internal dimension of the hose.

1 10 Vacuum resistance :

All our suction hoses have maximum vacuum resistance. Also, our data sheets indicate maximum admissible vacuum values for high pressure hoses with metal reinforcement, as well as the EN NF R3 hose with textile reinforcement.
Accidental kinking or flattening are particularly detrimental to vacuum resistance of hoses.

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1 11 Vibrations :

TECALEMIT FLEXIBLES® hoses are manufactured to withstand vibrations. In order to optimise their life span, it is recommended to avoid them in as much as possible, as vibrations (and flexions) are the main sources of wear and heating, particularly at end-fittings.

1 12 Twisting :

Twisting must be avoided. They give way to a rapid deterioration of hoses.

1 13 Chemical resistance :

Compatibility of the hose inner tube with the fluid conveyed must be ascertained. In the same respect, the outer cover and its environment should be taken into consideration.
The table of chemical resistance found in this catalogue gives the main information, but please contact our technical department in case of doubt.

1 14 Gaseous fluids :

Hoses must be adapted to conveying gaseous fluids when necessary.
The hose outer cover must be micro-perforated, in order to eliminate any gas build-up in the hose reinforcement structure.
Other precautions should be taken in assembling and installing the hose. These are detailed in the technical handbook.
Metal spiral hose cannot convey gaseous fluids (microperforation is not possible).

1 15 Electrical conductivity :

In general, it can be said that metal-reinforced hoses are conductive and that textile-reinforced hoses are not.
Resistance per metre of hose inner tube and outer cover should be taken into consideration, and also that between the inner tube and the cover.
For special application, please consult the technical department.

1 16 Dimensional stability :

TECALEMIT FLEXIBLES® high pressure hose is manufactured with a braid angle which geometrically cancels any dimensional modifications due to pressure, that is : stretching with reduction of diameter or, alternatively, retraction accompanied by an increase in diameter.
Even so, it strongly advised to check measurements during pressure tests.

2 Storage

Over long periods, particularly when exposed to certain factors described herebelow, hoses can be modified in such a way as to no longer have their initial physical properties.
The right storage conditions can give maximum protection and reduce deterioration of the polymers.

2 1 Storage time :

Bulk hose :
Indicated life spans are valid only if hose is stored in the conditions described in the following paragraphs.
Elastomer hose :
- Up to 3 years old : can be used without restrictions.
- Between 3 and 6 years : visual inspection, test samples at 2 times working pressure.

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- 6 to 8 years : full visual inspection, carry out destructive and impulse tests on samples.
- Over 8 years : do not use thermoplastic hose.
- For polyurethane cover hoses (SAE100R7 and R8, Tecalemit hoses TTAF and TTKF) please refer to elastomer hose recommendations above.
- TECALEMIT FLEXIBLES® hoses TTA and TTK, life span is twice as long in normal use. It can be longer in certain cases : please contact our technical department (BS ISO 2230:2002).

Hose assemblies installed on equipment :

Hoses containing the usual liquid and installed on equipment unused for over 3 years should be tested at twice the working pressure and should be replaced if over 5 years.
In every case, a careful visual inspection should be made, particularly where hose bends and at connections between hose and swage ferrule.
All TECALEMIT FLEXIBLES® hoses carry a number used to identifiy date of manufacture and the date at which hose was placed in stock.

2 2 Temperature :

The ideal storage temperature is 15°C and the acceptable range is between 0°C and 35°C.
Hoses should therefore not be placed near a source of heat. In any case, stored hoses should not be subjected to temperatures in excess of 50°C or lower than - 30°C.
Moreover, any important fluctuations of temperature during storage could lead to premature aging of the hose.
Any cracking of the outer cover due to ozone effects increase with temperature.

2 3 Ultraviolet rays :

Direct light is a major source of aging. items should not be subjected to sunlight or strong artificial light.
Should the storage area have windows, these should be covered with protective red, orange or white film, or use opaque packing on the items.

2 4 Humidity :

It is recommended to avoid humidity in excess of 65%.

2 5 Ozone :

Ozone is a factor of aging that must be taken into account.
Storage areas should not contain any ozone generators such as mercury lamps or electrical equipment producing sparks such as AC electrical motors.
Moreover, circulation of air around and inside the hoses should be limited, for instance by leaving the original packing on the hose and plugging the hose ends.

2 6 Environment :

Storage areas should be separated from workshops where the items could be subjected to projections of oil, solvants, detergents...

2 7 Storage bend radius :

Ozone is major factor of aging which, in particular, causes cracking in the ruber outer cover. When the hose is bent, the strain on the outer cover has a tendency to increase the cracks.
Consequently, the smaller the bend radius, more likely the risk of cracks appearing.

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2 8 Storage method :

Ideally, hoses should be stored by laying them straight on a flat support with ends plugged.
Should hoses have to be stored in rolls, these should not be piled one on top of the other, and in no case should there be any permanent flattening of the sructure due to piling.
Hoses should not be hung on hooks and generally should not be subjected to any flexion or traction.

3 Use and maintenance :

During use, a hose can be subjected to many effects for which it has not been foreseen.
Obviously, it is recommended to use a hose according to data sheets concerning working pressure, temperature, bend radius...
Please contact us in case of doubt on the combination of the different factors.

3 1 Protection in service :

Accessories destined to protect hoses can be found at the end of this catalogue.
The GA sheath is made from braided fibre glass with silicon induction, available in various thicknesses and a large range of diameters for heat protection of hose.
The GC sheath is in SBR/EPDM on a textile support affording mechanical and ultraviolet protection.

3 2 Manipulation :

Hoses should be handled with precaution, must not be dragged over abrasive or sharp surfaces, avoid knotting, trampling or flattening under vehicles.

3 3 Products conveyed :

Please consult us should the hose be used for a product different than the one foreseen.
A chemical compatibility chart for hose inner tubes can be found on page 18.

3 4 Torsion :

Should the relative movement result in a torsion of the hose, end connections should be modified to give way to a flexion of the hose rather than torsion.

3 5 Tensile strength :

Please consult us with details of any pulling forces that our hoses could be subjected to.

3 7 Protection of operators :

High pressure hoses, when used in the presence of operators, should be equipped with our patented PROTECALAN® sheathing, combining anti-whip cables and spray-guard.
The combination of these two devices ensures the total protection of operators in conformity with NF EN ISO 4413 which defines the general rules relative to hydraulic installations. Once per year, it is recommended that hoses be visually inspected after cleaning.
The following defects should impose the replacement of the hose :
- Leaks or traces thereof.
- Ripped or torn outer cover.
- Slipping of end-fitting.
- Abrasion or notches leaving reinforcement exposed.

TABLE OF TECALEMIT FLEXIBLES® HOSE

Hose	Working pressure (bar)																		
	Dash																		
	3	4	5	6	8	10	12	14	16	20	24	32	40	48	50	56	64	80	96
TTA	245	225	180	160	140														
TTAF	245	225	180	160	140														
TTK	530	450	370	300	230														
TTKF	530	450	370	300	230														
T710	230	200	190	175	150	125	100		75										
T711	293	287	217	212	185	150	125		100										
T712	293	287	217	212															
T713		390		315															
T810	345	345	310	275	240	190	155	138											
T111	287	242	237	203	171	142	123		91	68	61	49							
T113	287	242	237	203	171	142	123		91	68	61								
T116	350	453	412	282	338	262	225		157	100									
T117		263	275	236	286	296	243		214										
T121		261	236	212	183	169	111		95										
T211	463	453	379	365	304	270	219		173	133	96	88	69	50					
T213	463	453	379	365	304	270	219		173	133	96	88							
T214		453	379	365	304	270	219		173										
T221		450	384	357	310	276	236		181										
T261			400	400															
T263		400	400	400	400														
T331	103	86	83	78	69	60	52		39	26									
T381	276																		
T410							21		17	14	10	10	10	10		10	10		
T462		25	25	25	25	25	25		25										
T510		207	207	155	138	121	103		55	43	34	24	24						
T513		207	207	155	138	121	103		55	43	34	24	24	14					
T532				43		43	43		43	43	43	43	43	43			43		
T610		28	28	28	28	24	22												
THTH		28	28	28	28	24	22												
T611	34	28	28	28	28	24	21		20										
T613	34	28	28	28	28	24	21												
T622	80	75	68	63	58	50	45		40	35									
T623	160	145	130	110	93	80	70		55	45	40	33	25		18		18		
T911		540		501	448	384	456		357	305	279	252							
T912						521	456		452	365	361	295							
T914							456		452	365									
T915							420		420	420	420	420							
T961		1000		850	800		750		700										
T962				1200	1100		1000												
T1362				1450	1450		1350		900										
VKI	207	190	172	155	138	103	86		69										
VI		110	100	90	97	85	78		65										
TH P1	276	224	207	183	161	115	103	92	80										
TH P2	310	253	237	206	189	133	126	115	93										
TH P3		172	100	133	103	83	69	57	46	34	30	23		14					

PRESSURE DROPS FOR STANDARD OIL

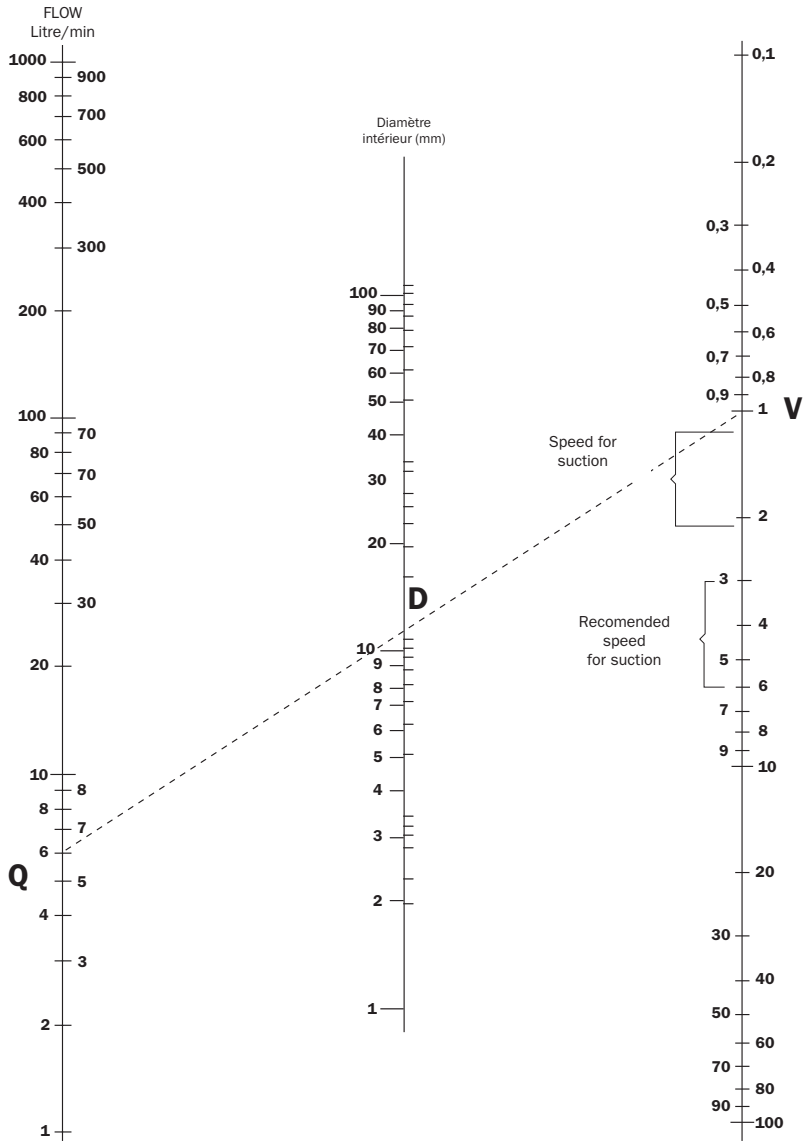
Litre/ minute	Inner diameter (mm)																		
	6	8	10	12	13	16	19	22	25	29	32	35	38	46	51	63	76	89	102
1	146																		
2	291	92																	
4	548	185	75																
8	1168	370	151	73															
12	1752	555	227	109	80														
16	2335	739	302	146	106														
20	2927	924	378	182	133														
25	7496	1157	473	228	166	72													
30	10223	2626	567	274	199	87													
40	16751	4332	1429	366	265	115													
50	24649	6362	2173	921	633	145	72												
60		8705	2966	1252	860	325	87	48	29										
75			4346	1832	1254	471	211	60	36	20	13								
90				2502	1711	643	286	143	79	24	16								
100					2049	767	341	172	94	47	18	13	9						
120						1047	465	233	128	64	40	15	11						
140							605	303	166	83	52	34	23	5,9					
160							760	380	208	104	65	43	29	12	4,5				
180							931	465	254	126	80	52	36	15	9	2,2			
200							1117	557	304	151	95	62	42	17	11	2,4	1,1		
240								761	416	206	130	85	57	24	15	5,4	1,4	0,7	
280										268	168	110	75	31	19	7	2,9	1	0,5
320											212	139	94	38	24	8,7	3,6	1,7	0,6
360												170	115	47	28	11	4,4	2,1	1,1
400												203	138	56	34	13	5,3	2,5	1,3
450													169	69	42	16	6,4	3,1	1,6
500													202	82	50	19	7,7	3,7	1,9
600														112	69	25	10	5	2,6
700														146	90	3,3	14	6,5	3,4
800														184	113	42	17	8,1	4,3
900														227	139	51	21	10	5,2
1000															167	61	25	12	6,3
1200															230	84	35	16	8,6

Laminary flow | Transitory flow | Turbulent flow

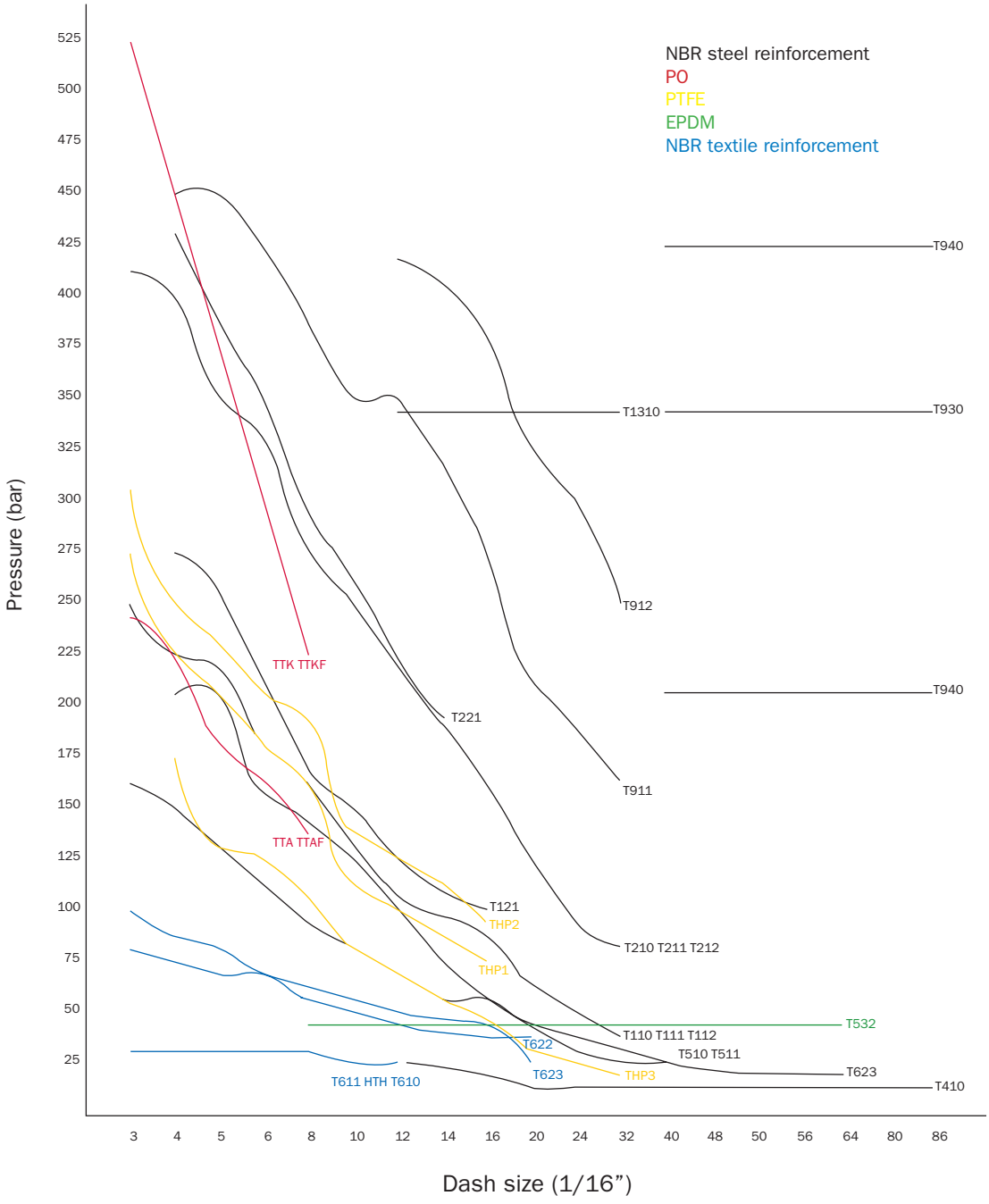
Table of pressure drop in millibars (mb) per metre of rubber hose without end-fittings by inner diameter in millimetres and by flow rate in litres per minute (l/m) for a standard hydraulic oil of 31,8 centistokes (mm2/s) and with a density of 878 kg/m3.

ABACUS

The following abacus corresponds the flow rate (in litres per minute), the inner diameter (in millimeters) and the speed (in meters per second) of a fluid within a hose.
It is just necessary to trace a straight line through two known values to obtain the third.
In the example shown by a dotted line, for a flow **Q** of 6 l/m, to have a speed **V** of 1 m/s, it is necessary to have an inner diameter **D** of roughly 12mm.



GRAPHICAL CHART OF WORKING PRESSURES ACCORDING TO HOSE



TABLEAUX DES RÉSISTANCES CHIMIQUES

1 : Little or no effect 2 : Minor effect 3 : Moderate effect 4 : Ambiant temperature

Chemical product	conc %	temp.°C	EPDM	NBR	POLYAMIDE	PTFE
Acetic acid	10	50	3	4	4	1
Acetic acid	50	50	4	3	4	1
Acetic acid		100	4	4	4	1
Acetic acid, vapor	100	70	1	2	4	1
Acetic anhydride		AT	2	2	1	1
Acetone		AT	1	4	1	1
Acetylene				1	1	1
Air with oil up				90°	120°	200°
Air without oil			150°	70°	120°	200°
Allylic alcohol		AT		1		
Ammoniac gas		cold	1	2	1	1
Ammoniac gas		hot	2	2	1	1
Ammoniac liquid		AT	1	2	1	1
Ammonium carbonate	Sat	70	1	4	2	1
Ammonium hydroxide	10	AT	1	1	1	1
Ammonium hydroxide		Conc.		AT	1	2
Amyl acetate		AT	2	4	1	1
Amyl alcohol		50	1	2		
Aniline		AT	1	4	1	1
Aniline		100	1	4	1	1
Animal oil		50	2	1	1	1
Aqeous lead sulfamate			1	2		1
Aqua regia		AT		4	4	1
Asphalt		100	4	2	1	1
Baryum hydroxide	Conc.	100		1	1	1
Benzene		AT	4	4	1	1
Benzene ether		AT	4	4		1
Benzyl alcohol		AT	1	4	3	1
Benzyl benzoate			2	4		1
Boric acid	10	100	1	1	1	1
Bromic acid	37	AT	1	4	1	1
Bromine		AT		4	4	1
Bromobenzene			4	4	4	1
Butandiene		AT	3	4		1
Butane liquid		AT	4	1	1	1
Butter (dehydrated)		100	3	1	1	1
Butylacetate		AT	2	4	1	1
Butylbutylic aldehyde			2	2	1	1
Butyle stearate		70	3	1	1	1
Butyric acid		AT	2	4	1	1
Calcium hydroxide		100		2	1	1
Calcium hypochlorite	15	AT	1	3		1
Carbolic acid	See Phenol					
Carbon dioxide			1	1	1	1
Carbon tetrachloride		AT	4	3	1	1
Chloric acid	20	AT	1	4	4	1
Chlorine (gas)			3	3	4	1
Chlorine water	Sat	AT	4	4	4	1
Chlorhydric acid	10	100	4	3	4	1
Chlorhydric acid	21	50	2	2	4	1
Chlorobenzene		50	4	4	1	1
Chlorobromomethane		AT	3	4		
Chlorodiphenyl		AT	4	4	1	1
Chlorododecane			4	4		
Chloroform		AT	4	4	3	1
Chlorohydric acid (glacial)	37	AT	1	3	4	1
Chromic acid	40	50	3	4	4	1
Citric acid	Sat	70	1	2	1	1
Cod-liver oil		AT	2	1	1	1
Coke oven gas			4	2		
Cotton oil		AT	2	1	1	1
Creosote			4	2	1	1
Dibutyl phtalate		AT	1	4	1	1

1 : Little or no effect 2 : Minor effect 3 : Moderate effect 4 : Ambiant temperature

Chemical product	conc %	temp.°C	EPDM	NBR	POLYAMIDE	PTFE
Dimethyl phtalate			2	4		1
Dimethylamine		AT	3	4	1	1
Dimethylamine		AT	2	4		1
Dioctyl phtalate		100	2	3	1	1
Dioxane		AT		4	1	1
Distilled water		100	1	2	1	1
Epichlorhydrine		50	2	4	4	1
Ethane			4	1	1	1
Ethanol		50	1	1		1
Ether		AT	3	2	1	1
Ethyl acetate		AT	1	4	1	1
Ethyl acylate		AT	2	4	1	1
Ethyl chloride		AT	1	2	1	1
Ethylene glycol		100	1	1	1	1
Ethylene oxide		AT	3	4	1	1
Ethylenediamine		AT	1	2	1	1
Ethylmercaptan			4	4		1
Fluorobenzene			4	4		1
Fluorochloroethylene				4		
Formaldehyde	40	AT	2	1	1	1
Formaldehyde	40	70	2	4	1	1
Formic acid	Sat	AT	2	3	4	1
Formic acid	Sat	70	2	3	4	1
Furfural		AT	2	4	1	1
Furfurylic alcohol		AT	3	4	1	1
Gallic acid			2	3		1
Gas-oil		70	4	1	1	1
Gelatin		40	1	1	1	1
Glucose (liquid)		80	1	1	1	1
Glycerine		100	1	1	1	1
Glycolic acid	37	AT	1	1		
Heaxane		AT	4	1	1	1
Hexane		AT	4	1	1	1
Hydrazine (solution)		AT	1	4		1
Hydrocyanic acid	20		1	3		
Hydrofluoric acid, hot	48	AT	1	3	4	1
Hydrogen		100	1	1	1	1
Hydrogen peroxide	30	AT	1	1	4	1
Hydrogen peroxide	10	AT	3	4	4	1
Hydrogen sulfide (solution)	Sat	AT	1	4	1	1
Iso-butyl alcohol		AT	1	2	1	1
Isooctane (solvant A)		AT	4	1	1	1
Isooctane / toluene	See solvants B et C				1	1
Isopropanol		40	1	2	1	1
Isopropyl ether		AT		4	1	1
Isopropyl acetate			2	4	1	1
Kerosene		70		1	1	1
Lactic acid	10	70	1	1		1
Lard		70	3	1	1	1
Linseed oil		AT	1	1	1	1
Liquid fluorine			3			1
Maleic acid			4	1	1	1
Maleic acid solution	Sat	AT	3	2		1
Mercury				1	1	1
Methane		AT	4	1	1	1
Methanol		50	1	1	1	1
Methyl acetate		AT	2	4	1	1
Methyl chloride			3	4	1	1
Methylene chloride		AT	3	4	2	1
Methylamine	32	AT	1	4	1	1
Methylbutylketone			2	4	1	1
Methylcyclopentane			4			
Methylisobutylketone		AT	2	4	1	1
Milk		AT	1	1	1	1
Mineral oil N° 1		100	4	1	1	1
Mineral oil N° 2		100	4	1	1	1

1 : Little or no effect 2 : Minor effect 3 : Moderate effect 4 : Ambiant temperature

Chemical product	conc %	temp.°C	EPDM	NBR	POLYAMIDE	PTFE
Mineral oil N° 3		100	4	1	1	1
N -octane			4		1	1
Nitric acid concentrated		AT	4	4	4	1
Nitric acid diluted	10	50	1	2	4	1
Nitric acid fuming	100	20	4	4	4	1
Nitrobenzene		50	1	4	1	1
Nitrogen			1	1	1	1
Octanol			1	2	1	1
Oleic acid		AT	3	1	1	1
Olive oil		50	3	1	1	1
Oxalic acid	25	70	1	3	1	1
Oxidizing salt solution (based on K Mn 04)	25	70	4		1	1
Oxygen up to				AT	120°	4
Ozone	50 pphm	40	1	4	3	1
Palmitic acid		70	2	2	4	1
Perchlorethylene		AT	4	3	1	1
phenol		100	2	4		1
Phosphoric acid	60	50	1	3	4	1
Phtalic acid	Sat	AT	1	4		
Picric acid	10	100	1	2	1	1
Pine oil		70	4	2	1	1
Potassium permanganate	25	70	4	3		1
Premium gas (4-star petrol)	See solvants B					
Propane liquid		AT	4	1	1	1
Propanol		50	1	2	1	1
Propyl acetate		AT	2	4		1
Propylene			4	3		1
Propylene oxide		AT	2	4	1	1
Pyridine		AT	2	4	1	1
Silicon grease			1	1	1	1
Soap solution			1	1	1	1
Sodium bicarbonate			1	1	1	1
Sodium carbonate	20	100	1	1	1	1
Sodium hydroxide	10	100	1	1	1	1
Sodium hydroxide	25	100	1	4	2	1
Sodium hypochlorite	10	50	1	3		1
Sodium peroxide			1		1	1
Solvent B (NFT46013) 70% isooctane -30% toluene		AT	4	2		
Solvant C 50 % isooctane 50 % Toluène (NF1 46-013)		AT	4	2	1	1
Soybean oil		AT	3	1	1	1
Steam up to		Above à 100°	230°	100°	120°	200°
Stearic acid		70	2	2	1	1
Styrene		AT	4	4	1	1
sucrose solution		80	1	1	1	1
Sulfuric acid	10	100	1	3	4	1
Sulfuric acid	50	100	1	4	4	1
Sulfuric acid		75		100	3	4
Sulfuric acid	96	AT	4	4	4	1
Sulfurous acid	Sat	AT	1	3	4	1
Sulphur			1	4	1	1
Tartric acid	10	100	2	1	3	1
Tetrachlorethane		AT		4	1	1
Tetraline		AT	4	4	1	1
Tetrahydrofurane		AT	4	4	1	1
Toluene		AT	4	4	1	1
Transformer oil			4	1	1	1
Tributyl phosphate		100	1	4		1
Trichloroethane		AT	4	4	1	1
Tricresylphosphate		70	1	4	2	1
Triethanolamine		AT	2	3	1	1
Triethylamine		AT	4	4		1
Trioctyl phosphate			1	4		1
Vegetable oil		60	2	1	1	1
xylene		AT	4	4	1	1

HYDRAULIC HOSES WITH TEXTILE BRAID REINFORCEMENT

TECALEMIT FLEXIBLES® - Parc d'activités de Kermaria, 29120 Pont l'Abbé - France
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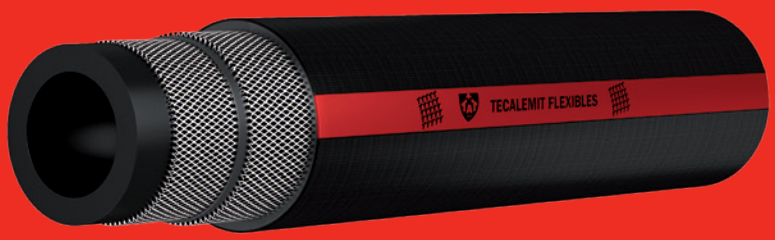
T 331



T 331 SAE 100 R3 - HYDRAULIC HOSE MEDIUM PRESSURE 2 TEXTILE BRAIDS

Intended to convey hydraulic oil under mid-range pressures, hose type T331 is textile braided.
It can be used over a wide temperature range and its neoprene outer cover has excellent ozone resistance.
It has a fine tape-wrapped outer finish.
Particulary robust, its outer cover thickness is superior to other textile braided hoses.
This hose can accept a negative pressure of 0.6 bars.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 2 textile braids
Outer cover : abrasion and weather-resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +120°C
Colour : black
Production lengths : variable

Part N°	Dash	Inner diameter		Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9933403	3	4,8	3/16”	12,7	0,8	103	206	414	76	0,14
9933603	4	6,4	1/4”	14,3	0,8	86	172	345	76	0,16
9931103	5	7,9	5/16”	17,5	0,8	83	166	331	102	0,25
9931003	6	9,5	3/8”	19,1	0,8	78	156	310	102	0,28
9931203	8	12,7	1/2”	23,8	0,8	69	138	276	127	0,41
9931603	10	15,9	5/8”	27	0,8	60	120	241	140	0,47
9931703	12	19,1	3/4”	31,8	0,6	52	104	207	152	0,65
9932503	16	25,4	1”	38,1	0,6	39	78	155	203	0,78
9933203	20	31,7	1”1/4	44,5	0,6	26	52	103	254	1,00

MARKING : TECALEMIT FLEXIBLES - PART N° - T331 - SAE 100 R3 - DN (MM/INCH) - BATCH N°

T 410

T 410 SAE 100 R4 - HYDROCARBON AND OIL SUCTION HOSE 4 TEXTILE BRAIDS AND 1 STEEL SPIRAL

Intended for suction of oil in hydraulic applications, hose type T410 has 4 textile braids and a metal spiral.
its specifications exceed SAE100 R4 standards. it is a very robust hose.
It can be used over a wide range of temperature and its neoprene outer cover is very ozone resistant.
It is used for delivery when a low bend radius is required.
It accepts maximum vacuum in all sizes.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 4 textile braids and 1 steel spiral
Outer finish : wrapped
Temperature : - 40°C to +70°C
Particularity : 1 copper braid ensuring electrical conductivity
Colour : black
Production lengths : 40 metres

Part N°	Dash	Inner diameter		Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9935410	12	19,0	3/4”	30	0,9	21	41	83	127	0,87
9935411	16	25,4	1”	36	0,9	17	34	69	152	1,15
9935412	20	31,8	1”1/4	43	0,9	14	28	55	203	1,37
9935413	24	38,1	1”1/2	49	0,9	10	20	41	254	1,75
9935414	32	50,8	2”	62	0,9	10	15	30	305	2,21
9935415	40	63,5	2”1/2	77	0,9	10	15	30	356	2,54
9935416	48	76,2	3”	90	0,9	10	15	30	457	3,52
9935417	56	88,9	3”1/2	103	0,9	10	15	30	533	4,10
9935418	64	101,6	4”	116	0,9	10	15	30	610	4,70

T 610

T 610 SAE 100 R6C - HYDRAULIC HOSE LOW PRESSURE, COTTON BRAID OUTER COVER 1 TEXTILE BRAID

A low pressure textile reinforced hydraulic hose, the T610 is flexible and light.
Its external cotton braiding increases resistance to wear and abrasion.
It is intended for common hydraulic and mineral oils.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : textile braid
Outer cover : neoprene rubber impregnated cotton braid
Outer finish : braided
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9930204	4	6,4	1/4”	12,7	28	56	112	65	0,15
9930104	5	7,9	5/16”	14,3	28	56	112	80	0,18
9930304	6	9,5	3/8”	15,9	28	56	112	80	0,20
9930504	8	12,7	1/2”	19,8	28	56	112	100	0,26
9930604	10	15,9	5/8”	23,0	24	48	96	125	0,32
9930704	12	19,1	3/4”	27,0	22	44	88	150	0,38

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R6C - DN (MM/INCH) - BATCH N°

T 611

T 613
HIGH TEMPERATURE

T 611 SAE 100 R6 - HYDRAULIC HOSE LOW PRESSURE, NEOPRENE OUTER COVER 1 TEXTILE BRAID

A low pressure textile-reinforced hydraulic hose, the T611 is flexible and light.
It can be used over a wide temperature range and its neoprene outer cover affords excellent ozone resistance.
It is intended for common hydraulic and mineral oils, but can be found in miscellaneous applications in industry and automotive repairs where its versatility is appreciated.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : textile braid
Outer cover : neoprene
Outer finish : wrapped or smooth according to production quantities
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9930103	3	4,8	3/16"	10,7	34	68	136	50	0,090
9930203	4	6,4	1/4"	12,3	28	56	112	65	0,105
9930403	5	8	5/16"	13,9	28	56	112	80	0,125
9930303	6	9,5	3/8"	15,5	28	56	112	80	0,150
9930503	8	12,7	1/2"	19,5	28	56	112	100	0,215
9930603	10	16	5/8"	22,6	24	48	96	125	0,25
9930703	12	19	3/4"	25,8	21	42	83	150	0,300
9930903	16	25,4	1"	33,2	20	40	80	170	0,450

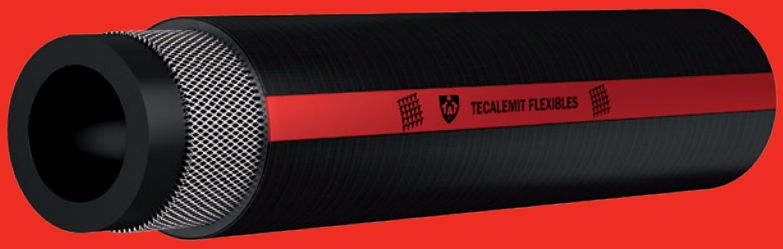
T 613 HT SAE 100 R6 - HYDRAULIC HOSE LOW PRESSURE, NEOPRENE OUTER COVER 1 TEXTILE BRAID, HIGH TEMPERATURE

It is intended for hydraulic control lines, discharge under low pressure of hydraulic fluids, air and water, where operating temperatures are up to 150°C.
Temperature : - 40°C to + 135° C / +150 ° C discontinuous
Colour : blue

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9930806	3	4,8	3/16"	10,7	34	68	136	50	0,100
9930205	4	6,4	1/4"	12,3	28	56	112	65	0,115
9930405	5	8	5/16"	13,9	28	56	112	80	0,140
9930305	6	9,5	3/8"	15,5	28	56	112	80	0,165
9930505	8	12,7	1/2"	19,5	28	56	112	100	0,240
9930605	10	16	5/8"	22,6	24	48	96	125	0,285
9930705	12	19	3/4"	25,8	21	42	83	150	0,335

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R6 - DN (MM/INCH) - BATCH N°

T 622



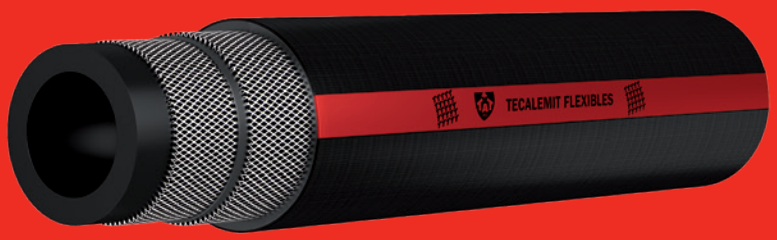
T 622 NF EN 854 2TE - HYDRAULIC HOSE LOW PRESSURE 1 TEXTILE BRAID

Intended for conveying hydraulic oil at low pressures, the T622 hose is textile braided.
It can be used over a wide temperature range and its neoprene outer cover affords excellent ozone resistance.
It has a fine tape-wrapped finish.
It is compatible for use with common hydraulic and mineral oils.
It meets the EN 854 & ISO 4079 standard.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 2 textile braids
Outer cover : abrasion and weather-resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C
Production lengths : variable, dia. 38 and dia. 50 : 40 metres
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9930804	3	4,8	3/16”	11,8	80	160	410	25	0,115
9930904	4	6,4	1/4”	13,4	75	150	400	40	0,150
9931004	5	8	5/16”	14,9	68	136	380	50	0,170
9931104	6	9,5	3/8”	16,5	63	126	310	60	0,195
9931204	8	12,7	1/2”	19,7	58	116	280	70	0,240
9931304	10	16	5/8”	23,9	50	100	260	90	0,325
9931404	12	19	3/4”	27,0	45	90	230	110	0,380
9931504	16	25,4	1”	34,4	40	80	200	150	0,545
9931604	20	31,8	1”1/4	41,0	35	70	180	170	0,740
9931704	24	38,1	1”1/2	48,1	30	60	180	190	0,870

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 854 2TE - DN (MM/INCH) - BATCH N°



T 623

T 623 NF EN 854 3TE - HYDRAULIC HOSE MEDIUM PRESSURE 2 TEXTILE BRAIDS

Intended for conveying hydraulic oil at mid-range pressures, the T623 is textile braided.
Its neoprene outer cover has excellent ozone resistance and has a fine tape-wrapped finish.
It has the highest working pressure for standard textile braided rubber hoses.
It is available in sizes up to and including 4".

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 2 textile braids
Outer cover : abrasion and weather-resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +70°C
Production lengths : variable, dia. 38 and dia. 50 : 40 metres
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9930805	3	4,8	3/16"	12,8	160	320	640	40	0,15
9930905	4	6,4	1/4"	14,4	145	290	580	45	0,18
9931005	5	7,9	5/16"	16,9	130	260	520	55	0,24
9931105	6	9,5	3/8"	18,5	110	220	440	70	0,27
9931205	8	12,7	1/2"	21,7	93	186	370	85	0,32
9931305	10	15,9	5/8"	25,9	80	160	320	105	0,45
9931405	12	19,1	3/4"	29,0	70	140	280	130	0,49
9931505	16	25,4	1"	35,9	55	110	220	150	0,69
9931605	20	31,7	1"1/4	42,3	45	90	180	190	0,78
9931705	24	38,1	1"1/2	49,6	40	80	160	240	1,03
9931805	32	50,8	2"	62,3	33	66	130	300	1,29
9931920	28	60	2"3/8	74,0	25	50	100	400	2,20
9932021	50	80	3"5/32	95,0	18	36	72	600	3,40
9932122	64	100	4"	118,0	18	36	72	700	4,10

T 462

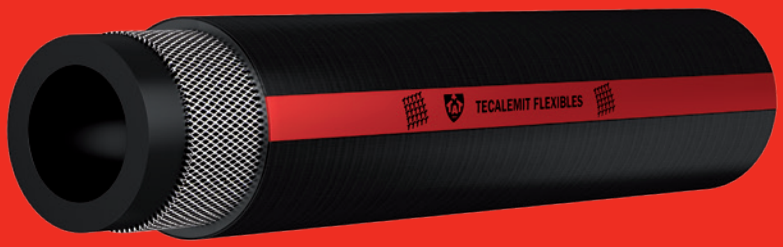
T 462 - MULTIPURPOSE HOSE TEXTILE BRAID 25 BAR
1 TEXTILE BRAID

The T462 hose is particularly appreciated by industrial maintenance services : it can accept hot glycol water, compressed air, oil as well as hydrocarbons up to 40% aromatics.
Its static electric conductivity, its reinforcement and its thickness give it an excellent bend raius.

Technical specifications :
Inner tube : antistatic NBR rubber
Reinforcement : textile braid
Outer cover : CR/SBR rubber
Outer finish : wrapped - smooth in dia. 25
Temperature : - 30°C to +70°C
Production lengths : 50 metres, - 40 metres in dia. 25
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9936205	4	6	1/4”	14	25	85	20	0,16
9936206	5	8	5/16”	16	25	85	25	0,21
9936207	6	10	3/8”	18	25	85	30	0,26
9936208	8	13	1/2”	21	25	85	45	0,33
9936209	10	16	5/8”	25	25	85	65	0,40
9936210	12	19	3/4”	29	25	85	100	0,55
9936211	16	25	1”	35	25	85	180	0,60

MARKING : TECALEMIT FLEXIBLES - PART N° - MULTIPURPOSE HOSE - ANTISTATIC - PS/WP 25/350PSI - DN (MM/INCH) - BATCH N°



T HTH

T HTH - HYDRAULIC HOSE LOW PRESSURE FOR HOT ATMOSPHERES
1 TEXTILE BRAID, CSM OUTER COVER

The HTH hose is intended to convey oil in hot atmospheres created by thermal engines.
Moreover, the hypalon outer cover has exceptional resistance to air, light, ozone and weather.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : textile braid
Outer cover : hypalon rubber
Outer finish : wrapped
Temperature : - 40°C to +125°C - exterior 135°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9939113	4	6,4	1/4”	12,7	28	56	112	65	0,15
9939213	5	7,9	5/16”	14,3	28	56	112	80	0,17
9939313	6	9,5	3/8”	15,9	28	56	112	80	0,20
9939413	8	12,7	1/2”	19,8	28	56	112	100	0,30
9939513	10	15,9	5/8”	23,0	24	48	96	125	0,35
9930619	12	19,1	3/4”	27,0	22	44	88	150	0,41

T 381

T 381 SAE J1401 - THYDRAULIC HOSE FOR BRAKE FLUID 2 HIGH TENSILE TEXTILE BRAIDS

Intended for hydraulic brake system in automotive, hose type T381 has 2 textile braids.
its special synthetic rubber outer cover is very abrasion, ozone and weather resistant.
It has standard SAE J1401 and agrements DOT & US FMVSS 106.

Technical specifications :

Inner tube : Hydraulic brake fluid resistant special synthetic rubber resistant special synthetic rubber
Reinforcement : High tensile synthetic rubber
Outer cover : brasion, ozone and weather resistant special synthetic rubber
Outer finish : Longitudinal streaks
Temperature : - 45° C à +80° C
Colour : black
Production lengths : variable

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Weight
		mm	Inch	mm	bar	bar	Kg/m
9930001	2	3,2	1/8”	10,5	276	900	0,09
9930002	3	4,8	3/16”	13	276	620	0,130

MARKING : TECALEMIT - PART N° - SAE J1401 - DN (MM/INCH) - HL - BATCH N° - SEL

HYDRAULIC HOSES WITH STEEL BRAID REINFORCEMENT

TECALEMIT FLEXIBLES® - Parc d'activités de Kermaria, 29120 Pont l'Abbé - France
Tel : (33) 02 98 82 48 48 - E-mail : info@tecalemit.com

NBR

T 261

T 263

T 261 - HIGH PRESSURE WASHER HOSE 120°C 2 STEEL BRAIDS

Intended for high pressure washing up to 400 bars, this hose is available in two different outer finishes : a very resistant black and a non-marking blue.
In both cases, the outer cover is resistant to animal fats and a wide range of detergents and the thickness of its outer cover is very wear-resistant.

Technical specifications :
Inner tube : black high temperature nitrile rubber
Reinforcement : 2 metal braids
Outer cover : abrasion resistant neoprene rubber
Outer finish : wrapped
Temperature : -30°C to +120°C, intermittent +150°C
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9935308	5	7,9	5/16”	14,3	17,3	400	1600	114	0,45
9935310	6	10,0	3/8”	16,7	19,7	400	1495	127	0,57

T 263 - HIGH PRESSURE WASHER HOSE 120°C 2 STEEL BRAIDS

Colour : Blue

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9939244	4	6,4	1/4”	12,7	15,7	400	1820	102	0,37
9937244	5	7,9	5/16”	14,3	17,3	400	1600	114	0,45
9939444	6	10,0	3/8”	16,7	19,7	400	1495	127	0,57
9939544	8	12,7	1/2”	19,8	23,1	400	1200	178	0,65

MARKING : TECALEMIT FLEXIBLES - PART N° - LAVAGE 400 BARS 120°C - DN (MM/INCH) - BATCH N°

T 111

T 113
HIGH TEMPERATURE

T 111 NF EN 853 1SN - HYDRAULIC HOSE MEDIUM PRESSURE, THIN OUTER COVER 1 STEEL BRAID

Intended for mi-range pressure hydraulic applications, the T111 is frequently used on handling and industrial equipment for pilot and drain lines.
With its dimensions reduced to the standard's limits, it can accept all hydraulic fittings with ease and rapidity. The quality of its neoprene outer cover complies with MSHA requirements.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 1 steel braid
Outer cover : abrasion and weather-resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 120°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	bar	mm	Kg/m
9937102	3	4,8	3/16"	9,5	11,8	- 0,8	287	574	1148	89	0,17
9936202	4	6,4	1/4"	11,1	13,4	- 0,8	242	483	967	102	0,21
9935202	5	7,9	5/16"	12,7	15,0	- 0,8	237	474	948	114	0,25
9935302	6	9,5	3/8"	15,1	17,4	- 0,8	203	407	814	127	0,34
9934502	8	12,7	1/2"	18,3	20,6	- 0,8	171	342	685	178	0,42
9934602	10	15,9	5/8"	21,4	23,7	- 0,8	142	285	570	203	0,49
9933602	12	19,1	3/4"	25,4	27,7	- 0,8	123	246	493	241	0,64
9933802	16	25,4	1"	33,3	35,6	- 0,8	91	182	364	305	0,97
9932912	20	31,7	1"1/4	40,5	43,5	- 0,6	68	137	274	419	1,26
9931922	24	38,1	1"1/2	46,8	50,6	- 0,6	61	122	244	508	1,59
9931932	32	50,8	2"	60,2	64,0	- 0,6	49	98	196	630	2,22

T 113 HT NF EN 853 1SN - HYDRAULIC HOSE MEDIUM PRESSURE, THIN OUTER COVER HIGH TEMPERATURE - 1 STEEL BRAID

Temperature : -50°C to +135° C, peaks to 150°C
Colour : blue

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	bar	mm	Kg/m
9937107	3	4,8	3/16"	9,5	11,8	- 0,8	287	574	1148	89	0,17
9936203	4	6,4	1/4"	11,1	13,4	- 0,8	242	483	967	102	0,21
9935203	5	7,9	5/16"	12,7	15,0	- 0,8	237	474	948	114	0,25
9935305	6	9,5	3/8"	15,1	17,4	- 0,8	203	407	814	127	0,34
9934505	8	12,7	1/2"	18,3	20,6	- 0,8	171	342	685	178	0,42
9933605	12	19,1	3/4"	25,4	27,7	- 0,8	123	246	493	241	0,64
9933805	16	25,4	1"	33,3	35,6	- 0,8	91	182	364	305	0,97
9932915	20	31,7	1"1/4	40,5	43,5	- 0,6	68	137	274	419	1,26
9931905	24	38,1	1"1/2	46,8	50,6	- 0,6	61	122	244	508	1,59

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 853 - 1 SN - DN (MM/INCH) - WP/PS (BAR) - BATCH N°

T 211

T 213
HIGH TEMPERATURE

T 211 NF EN 853 2SN - HYDRAULIC HOSE HIGH PRESSURE, THIN OUTER COVER 2 METAL BRAIDS

Hose type T211, intended to convey hydraulic oil at high pressure, has two metal braids.
Its fine tape wrapped thin outer cover can accept swaging without skiving, using the appropriate ferrules.
Polyvalent and easy to use, it is always readily available throughout our distribution network.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 2 metal braids
Outer cover : abrasion and weather-resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 120°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	bar	mm	Kg/m
9939109	3	4,8	3/16"	11,1	13,4	- 0,95	463	927	1854	90	0,30
9939209	4	6,4	1/4"	12,7	15,0	- 0,95	454	907	1815	100	0,37
9939309	5	7,9	5/16"	14,3	16,6	- 0,95	379	759	1519	115	0,45
9939409	6	9,5	3/8"	16,7	19,0	- 0,95	365	730	1460	130	0,53
9939509	8	12,7	1/2"	19,8	22,2	- 0,95	304	608	1217	180	0,62
9937609	10	15,9	5/8"	23,0	25,4	- 0,95	270	541	1083	200	0,79
9937709	12	19,1	3/4"	27,0	29,3	- 0,8	219	438	876	240	0,98
9936809	16	25,4	1"	34,9	38,1	- 0,8	173	347	695	300	1,47
9935909	20	31,8	1"1/4	44,5	48,3	- 0,8	133	267	535	420	2,38
9933909	24	38,1	1"1/2	50,8	54,6	- 0,8	96	191	383	500	2,51
9932909	32	50,8	2"	63,5	67,6	- 0,8	88	177	354	630	3,19
9931909	40	63,5	2"1/2		79		69	138	276	760	3,79
9930909	48	76,2	3"		91		50	100	200	900	4,01

T 213 HT NF EN 853 2SN - HYDRAULIC HOSE HIGH PRESSURE, THIN OUTER COVER HIGH TEMPERATURE, 2 METAL BRAIDS

Temperature : -50°C to +135° C, peaks to 150° C
Colour : blue

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	bar	mm	Kg/m
9939103	3	4,8	3/16"	11,1	13,4	- 0,95	463	927	1854	90	0,30
9939203	4	6,4	1/4"	12,7	15,0	- 0,95	454	907	1815	100	0,37
9939303	5	7,9	5/16"	14,3	16,6	- 0,95	379	759	1519	115	0,45
9939403	6	9,5	3/8"	16,7	19,0	- 0,95	365	730	1460	130	0,53
9939503	8	12,7	1/2"	19,8	22,2	- 0,95	304	608	1217	180	0,62
9937603	10	15,9	5/8"	23,0	25,4	- 0,95	270	541	1083	200	0,79
9937703	12	19,1	3/4"	27,0	29,3	- 0,8	219	438	876	240	0,98
9936803	16	25,4	1"	34,9	38,1	- 0,8	173	347	695	300	1,47
9935903	20	31,8	1"1/4	44,5	48,3	- 0,8	133	267	535	420	2,38
9933903	24	38,1	1"1/2	50,8	54,6	- 0,8	96	191	383	500	2,51
9932903	32	50,8	2"	63,5	67,6	- 0,8	88	177	354	630	3,19

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 853 2SN - DN (MM/INCH) - WP/PS (BAR) - BATCH N°

T 214
SUPER-ABRA

T 214 SUPER-ABRA NF EN 853 2SN - HYDRAULIC HOSE HIGH PRESSURE, SUPER HIGH ABRASION RESISTANT COVER, THIN OUTER COVER - 2 METAL BRAIDS

Hose T214 is intended to be used with mid and high pressure hydraulic systems in industrial and agricultural applications.
It is especially resistant to abrasion, oil, fuel and atmospheric agents thanks to its special synthetic rubber coating.
Furthermore, it is very well suited to maritime applications thanks to its sea water resistance.

Technical specifications :
Inner tube : Special synthetic rubber resistant to hydraulic and mineral oils and lubricants.
Reinforcement : 2 steel braids
Outer cover : Special synthetic rubber resistant to high levels of abrasion, oils, fuels and atmospheric agents.
Outer finish : wrapped
Temperature : - 40°°C to +100°C - peaks to 120°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Negative pressure	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	bar	mm	Kg/m
9939259	4	6,4	1/4”	12,7	15,0	- 0,95	453	907	1815	100	0,37
9939359	5	7,9	5/16”	14,3	16,6	- 0,95	379	759	1519	115	0,45
9939459	6	9,5	3/8”	16,7	19,0	- 0,95	365	730	1460	130	0,53
9939559	8	12,7	1/2”	19,8	22,2	- 0,95	304	608	1217	180	0,62
9937659	10	15,9	5/8”	23,0	25,4	- 0,95	270	541	1083	200	0,79
9937759	12	19,1	3/4”	27,0	29,3	- 0,8	219	438	876	240	0,98
9936859	16	25,4	1”	34,9	38,1	- 0,8	173	347	695	300	1,47

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 853 2SN - DN (MM/INCH) - ANTI ABRASIF - BATCH N°

T 121

T 121 NF EN 857 1SC - HYDRAULIC HOSE MEDIUM PRESSURE 1 STEEL BRAID

Produced according to the standard EN 857 1SC, the T121 hose has reduced dimensons and low bend radius.
Requiring care during assembly, it is preferred by OEMs and appreciated for its cost.
Produced on request.
The quality of its neoprene outer cover complies with MSHA requirements.

Technical specifications :
Inner tube : nitrile rubber
Reinforcement : metal braid
Outer cover : neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 120°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9936240	4	6,4	1/4”	10,1	13,6	261	522	1045	45	0,20
9935240	5	7,9	5/16”	11,8	14,0	236	472	944	55	0,22
9935340	6	9,5	3/8”	14,0	16,4	212	424	849	60	0,28
9934540	8	12,7	1/2”	17,3	19,5	183	367	734	70	0,34
9934640	10	15,9	5/8”	20,4	22,6	169	338	676	90	0,42
9933640	12	19,0	3/4”	24,0	26,2	111	222	445	100	0,50
9933840	16	25,4	1”	31,2	34,0	95	190	380	160	0,73

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 857 1SC - DN (MM/INCH) - BATCH N°

T 221

T 221 NF EN 857 2SC - HYDRAULIC HOSE HIGH PRESSURE 2 STEEL BRAIDS

Hose T221 exceeds the requirements of standard NF-EN 857 2SC which sets out the characteristics of so-called “compact” hydraulic hoses.
These hoses are lighter, offer a better bend radius and a greater pressure burst resistance than hydraulic hoses compliant with the previous standard.
Furthermore, the standard version also meets MSHA (Mining and Safety Health Administration) standards. But upon request, it can also be manufactured with a standard neoprene coating or an anti-abrasion coating in reticulated polyethylene.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 2 steel braids
Outer cover : neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 120°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9939240	4	6,4	1/4”	11,4	13,6	450	900	1800	50	0,29
9939340	5	7,9	5/16”	13,0	15,2	384	769	1538	60	0,33
9939440	6	9,5	3/8”	15,2	17,5	357	714	1428	70	0,42
9939540	8	12,7	1/2”	18,7	20,9	310	621	1242	80	0,54
9937640	10	15,9	5/8”	21,9	24,0	276	553	1106	100	0,67
9937740	12	19,0	3/4”	25,8	27,8	236	472	945	140	0,80
9936840	16	25,4	1”	32,8	35,6	181	363	726	180	1,15

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 857 2SC - DN (MM/INCH) - WP/PS (BAR) - BATCH N°

T 510

T 510 SAE 100 R5 - HYDRAULIC HOSE MEDIUM PRESSURE
1 STEEL BRAID - 1 TEXTILE BRAID

Hose intended for hydraulic oil and greases under mid-range pressures, the T510 has a textile braid, a steel braid and covered by neoprene impregnated cotton braiding increasing its resistance to wear and abrasion.
Its weight, dimensions and bend radius are very low.
It is produced in specific diameters.
It is preferred in specific industrial appplications for these qualities.
It is used with reusable hydraulic fittings and is widely used on handling and lubrication equipment.
With the same specifications but with a neoprene wrapped-effect finish, T511 can be manufactured on request.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : textile and metal braids
Outer cover : neoprene rubber impregnated cotton braid
Outer finish : textile braid
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9938101	4	4,8	3/16“	12,9	210	410	1100	75	0,24
9938201	5	6,4	1/4“	14,5	210	410	1000	85	0,28
9937301	6	8	5/16“	16,8	157	314	800	100	0,35
9936401	8	10,3	13/32“	19,1	140	280	700	115	0,40
9936501	10	12,7	1/2“	22,9	122	244	600	140	0,56
9935601	12	16	5/8“	27,1	105	210	520	165	0,69
9933701	16	22,2	7/8“	30,8	56	112	380	185	0,69
9932801	20	28,6	1”1/8	37,6	43	83	300	230	0,91
9932901	24	34,9	1”3/8	44,5	35	70	250	265	1,13
9931901	32	46	1”13/16	56,4	24	48	200	335	1,37
9931904	40	60	2”3/8	73,0	24	48	150	610	2,27

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R5C - DN (MM/INCH) - BATCH N°

T 513
HIGH TEMPERATURE

T 513 HT SAE 100 R5 - HYDRAULIC HOSE MEDIUM PRESSURE , COTTON BRAID OUTER COVER 1 STEEL BRAID - 1 TEXTILE BRAID, HIGH TEMPERATURE

T513 can convey hot fluids under mid-range pressures.
It is compatible with hydraulic oils up to a temperature of 135°C with peaks to 150°C and compressed air/oil mixture up to 120°C.
It can be equipped with tecalemit flexibles® original reusable fittings.

Technical specifications :
Inner tube : synthetic rubber
Reinforcement : textile and metal braids
Outer cover : rubber impregnated textile braid
Outer finish : textile braid
Temperature : - 50°C to +135°C - peaks to 150°C
Production lengths : variable
Colour : blue

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9938125	4	4,8	3/16”	12,9	207	414	828	75	0,26
9938225	5	6,4	1/4”	14,5	207	414	828	85	0,30
9937325	6	8	5/16	16,8	155	310	620	100	0,37
9936425	8	10,3	13/32”	19,1	138	276	552	115	0,43
9936525	10	12,7	1/2”	22,9	121	242	484	140	0,59
9935625	12	16	5/8”	27,1	103	206	412	165	0,74
9933725	16	22,2	7/8”	30,8	55	110	220	185	0,73
9932825	20	28,6	1”1/8	37,6	43	86	172	230	0,97
9932925	24	34,9	1”3/8	44,5	34	68	136	265	1,21
9931925	32	46	1”13/16	56,4	24	48	96	335	1,47
9931935	40	60	2”3/8	73	24	48	96	610	2,43
9931945	48	76,2	3”	90,5	14	28	56	840	3,23

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R5C - DN (MM/INCH) - BATCH N°

T 116

T 116 SAE 100 R16 - HYDRAULIC HOSE HIGH PRESSURE, THIN OUTER COVER 1 STEEL BRAID

This hose combines great physical properties, in terms of working pressure and bend radius, with reduced dimensions.
The quality of its neoprene outer cover complies with MSHA requirements.

Technical specifications :
Inner tube : nitrile rubber
Reinforcement : metal braid
Outer cover : neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9939116	3	4,8	3/16"	9,7	11,7	350	700	1400	44	0,14
9939216	4	6,4	1/4"	11,2	13,6	453	905	1811	51	0,25
9939316	5	7,9	5/16"	12,5	14,5	412	824	1648	57	0,27
9939416	6	9,5	3/8"	14,6	16,6	282	565	1130	63	0,33
9939516	8	12,7	1/2"	17,6	19,6	338	675	1351	89	0,41
9934516	10	15,9	5/8"	20,6	22,8	262	525	1050	102	0,47
9937716	12	19,1	3/4"	24,4	26,7	225	450	900	121	0,57
9933816	16	25,4	1"	32,5	35,5	157	313	627	152	0,72
9935916	20	31,7	1"1/4	39,6	43,0	100	200	400	210	1,12

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R16 - DN (MM/INCH) - WP/PS (BAR) - BATCH N°

T 117

T 117 SAE 100 R17 - ISOBARIC HYDRAULIC HOSE, THIN OUTER COVER 1 STEEL BRAID

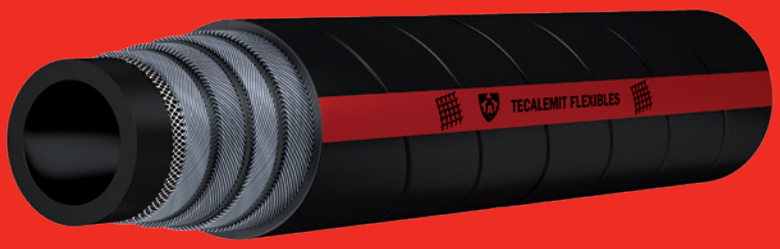
Hose type T117 according to SAE 100 R17 is an “isobaric” hose.
The minimum working pressure defined by the standard is 210 bar irrespective of its diameter.
The hose has a 1 steel wire braid reinforcement up to diameter 3/8” and 2 steel wire braids above.
Working pressures are indicated for the hose as such.
The quality of its neoprene outer cover complies with MSHA requirements.

Technical specifications :
Inner tube : nitrile rubber
Reinforcement : metal braid
Outer cover : neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9939217	4	6,4	1/4”	12,4	263	526	1053	50	0,18
9939317	5	7,9	5/16”	14,1	275	450	900	55	0,22
9939417	6	9,5	3/8”	16,1	236	471	943	65	0,28
9939517	8	12,7	1/2”	20,3	286	572	1144	90	0,45
9937617	10	15,9	5/8”	24,0	296	591	1183	105	0,59
9937717	12	19,1	3/4”	27,7	243	485	971	125	0,78
9933817	16	25,4	1”	34,6	214	428	856	150	1,14

HYDRAULIC HOSES WITH STEEL WIRE SPIRALS REINFORCEMENT

TECALEMIT FLEXIBLES® - Parc d'activités de Kermaria, 29120 Pont l'Abbé - France
Tel : (33) 02 98 82 48 48 - E-mail : info@tecalemit.com



T 911

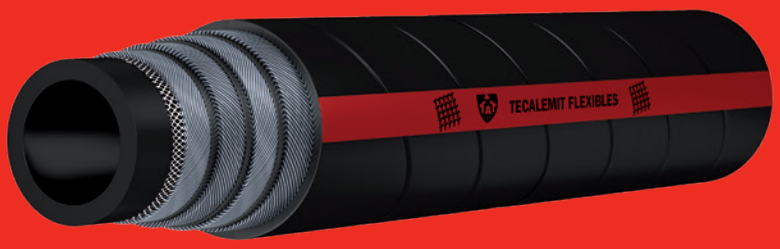
T 911 NF EN 856 4SP - HYDRAULIQUE HOSE VERY HIGH PRESSURE 4 STEEL WIRE SPIRALS

Produced on rigid mandrils from 3/4" up, these hoses are vulcanised in a very long autoclave.
This hose is usually intended for power transmission at high pressures.
It is used in industry, shipping and on earth-moving equipment.
Hoses can be supplied equipped with swaged fittings and test certificates.
It meets the NF EN 856 4SP standard.
The quality of its neoprene outer cover complies with MSHA (Mine Safety and Health Administration) requirements.

Technical specifications :
Inner tube : black synthetic rubber
Reinforcement : 4 steel wire spirals
Outer cover : oil and weather resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : 61 metres and variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9939108	4	6,4	1/4"	14,6	17,9	540	1080	2160	150	0,62
9939308	6	9,5	3/8"	17,5	22,2	501	1002	2004	180	0,85
9939508	8	12,7	1/2"	20,2	25,2	448	896	1792	230	0,95
9939608	10	15,9	5/8"	23,8	28,6	384	769	1538	250	1,14
9939708	12	19,1	3/4"	28,2	32,0	456	911	1823	300	1,48
9939808	16	25,4	1"	35,3	41,0	357	714	1428	340	2,06
9937900	20	31,8	1"1/4	46,0	51,2	305	611	1222	460	3,22
9936900	24	38,1	1"1/2	52,4	58,0	279	559	1118	560	3,74
9936910	32	50,8	2"	65,3	70,4	252	504	1008	660	4,50

T 912



T 912 NF EN 856 4SH - HYDRAULIQUE HOSE VERY HIGH PRESSURE 4 STEEL WIRE SPIRALS

Produced on rigid mandrils, these hoses are vulcanised in long length autoclaves.
This hose is usually employed for power transmission at high pressures.
T912 is used in industry, shipping and on earth-moving equipment.
It meets NF EN 856 4SH standards.
The quality of its neoprene outer cover complies with MSHA (Mine Safety and Health Administration) requirements.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 4 or 6 metal spirals
Outer cover : oil and weather resistant neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : 61 metres
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9939807	10	15,9	5/8"	23,6	28,4	521	1042	2084	250	1,10
9939809	12	19,1	3/4"	28,4	32,2	456	912	1825	280	1,56
9939810	16	25,4	1"	35,2	38,7	452	903	1807	340	2,09
9939811	20	31,8	1"1/4	41,9	45,5	365	729	1459	460	2,57
9939812	24	38,1	1"1/2	48,8	53,5	361	721	1443	560	3,42
9939813	32	50,8	2"	63,2	68,1	295	589	1179	700	4,73

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 856 4SH - DN (MM/INCH) - WP/PS (BAR) - BATCH N°

T 914
SUPER-ABRA

T 914 NF EN 856 4SH SUPER ABRA - HYDRAULIQUE HOSE VERY HIGH PRESSURE 4 STEEL WIRE SPIRALS

Produced on rigid mandrils, these hoses are vulcanised in long length autoclaves.
This highly abrasion resistant hose is normally intended for high pressure delivery.
Thanks to its special synthetic rubber outer cover, it is particularly resistant to abrasion, oils, fuels and atmospheric agents.
T914 is used in industry, shipping and on earth-moving equipment.
It meets NF EN 856 4SH standards.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 4 or 6 metal spirals
Recouvrement : Special synthetic rubber outer cover resistant to abrasion, oils, fuels and atmospheric agents.
Outer finish : wrapped
Temperature : - 40°C to +100°C - peaks to 125°C
Production lengths : 61 metres
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9939849	12	19,1	3/4"	28,4	32,2	456	912	1825	280	1,56
9939850	16	25,4	1"	35,2	38,7	452	903	1807	340	2,09
9939851	20	31,8	1"1/4	41,9	45,5	365	729	1459	460	2,57

T 915

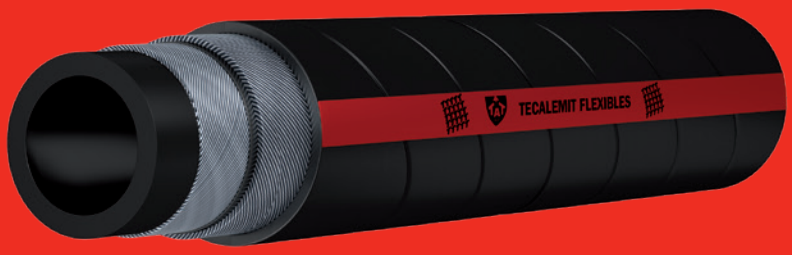
T 915 NF EN 856 R15 - HYDRAULIQUE HOSE VERY HIGH PRESSURE , ISOBARIC 420 BAR 4 OR 6 STEEL WIRE SPIRALS

T915 is among the toughest hydraulic hoses of the range.
I is produced on rigid mandrils and vulcanised in straight lengths.
Its working pressure is 420 bars for all diameters.
Swaging of fittings is carried out after internally and externally skiving the hose.
The metal structure of the hose is then perfectly in cohesion with the metal fitting.
The quality of its neoprene outer cover complies with MSHA (Mine Safety and Health Administration) requirements.

Technical specifications :
Inner tube : black nitrile rubber
Reinforcement : 4 high tensile steel spirals up to 1", 6 high tensile steel spirals from 1"1/4 up
Outer cover : neoprene rubber
Outer finish : wrapped
Temperature : - 40°C to +120°C - peaks to 125°C
Production lengths : 61 metres
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9939002	12	19,1	3/4"	32	420	840	1680	265	1,54
9939003	16	25,4	1"	38,4	420	840	1680	330	2,14
9939004	20	31,7	1"1/4	49,3	420	840	1680	445	3,97
9939005	24	38,1	1"1/2	57,3	420	840	1680	530	4,98
9939006	32	50,8	2"	74	420	840	1680	635	7,32

MARKING : TECALEMIT FLEXIBLES - PART N° - NF EN 856 R15 - DN (MM/INCH) - WP/PS (BAR) - BATCH N°



T 532

T 532 - HOSE FOR AVIATION OIL
2 STEEL WIRE SPIRALS

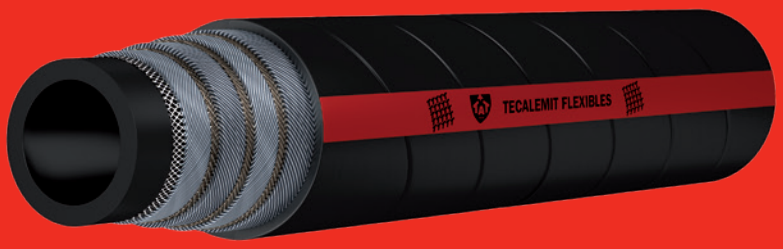
In the field of power transmission by hydraulic oil, T532 can convey Skydrol up to 43 bars.
It can also be used for superheated steam up to 18 bars at 232°C.
It is possible to manufacture the ISO 6134-2B certified hose 533 with an oil-resistant outer cover.
Is structure reinforced by metal spirals gives excellent bend radius.
The EPDM rubber ensures long service life.
It meets ISO 6134-2A standards.

Technical specifications :
Inner tube : black EPDM rubber
Reinforcement : metal spirals
Outer cover : black EPDM rubber
Outer finish : fine tape-wrapped
Temperature : - 40°C to +232°C
Production lengths : 40 metres except dias. 19, 25 and 53 : 60 metres
Colour : black with red lay line

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9935313	8	13	1/2”	25	18	180	120	0,60
9935316	10	16	5/8”	29	18	180	160	0,80
9935319	12	19	3/4”	32	18	180	190	0,90
9935325	16	25	1”	38	18	180	250	1,20
9935332	20	32	1”1/4	46	18	180	320	1,50
9935338	24	38	1”1/2	54	18	180	200	1,70
9935350	32	50	2”	68	18	180	500	2,30
9935353		55	2”1/16	71	18	180	532	2,40
9935363	40	65	2”1/2	80	18	180	630	2,60
9935376	48	75	3”	96	18	180	750	3,10
9935377	64	100	4”	124	18	180	1000	6,20

T 961

T 962



T 961 - HYDRAULIC HOSE FOR VERY HIGH PRESSURE WATERBLASTING TEXTILE LAYERS, 4 STEEL SPIRAL LAYERS

Hose types T961 and T962 are mainly intended for very high pressure waterblasting.
For example, they are used in refineries, sugar mills, paint spray booths in the automotive industry and also for decennial maintenance of engineering works.
Used with water, the safety factor between burst and working pressure is 2.5.
The hose must be internally and externally skived before mounting and swaging of end-fittings.
The metal structure of the hose is then perfectly in cohesion with the metal fitting.

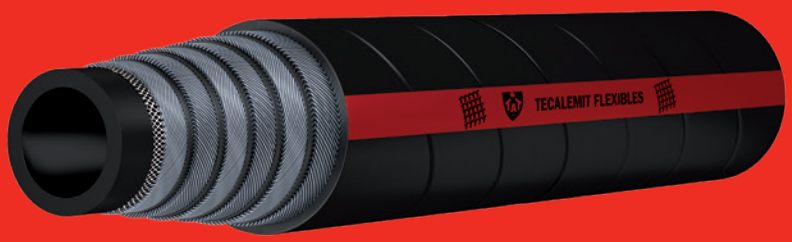
Technical specifications :
Inner tube : black synthetic rubber
Reinforcement : textile layers, 4 steel spiral layers
Outer cover : chloroprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9937944	4	6,3	1/4”	14,6	17,6	1000	1250	2500	130	0,595
9938044	6	9,5	3/8”	17,5	21,3	850	1075	2125	155	0,785
9938144	8	12,7	1/2”	20,2	24,6	800	950	1900	200	0,920
9938244	12	19	3/4”	28,2	32	750	925	1850	250	1,930
9938344	16	25,4	1”	35,1	38,4	700	850	1700	300	2,125

T 962 – HYDRAULIC HOSE FOR VERY HIGH PRESSURE WATERBLASTING TEXTILE LAYERS, 4 STEEL SPIRAL LAYERS

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9938444	6	9,5	3/8”	18	20,4	1250	1580	3125	210	0,875
9938511	8	12,7	1/2”	21,6	24,6	1100	1375	2750	230	1,215
9938644	12	19	3/4”	29	32	1100	1375	2750	250	1,855

MARKING : TECALEMIT FLEXIBLES - PART N° - DN (MM/INCH) - BATCH N°



T 1362

T 1362 - HYDRAULIC HOSE FOR VERY HIGH PRESSURE WATERBLASTING 6 STEEL SPIRAL LAYERS

Hose type T1362 is mainly intended for very high pressure waterblasting.
For example, it is used in refineries, sugar mills, paint spray booths in the automotive industry and also for decennial maintenance of engineering works.
Used with water, the safety factor between burst and working pressure is 2.5.
The hose must be internally and externally skived before mounting and swaging of end-fittings.
The metal structure of the hose is then perfectly in cohesion with the metal fitting.

Technical specifications :
Inner tube : black synthetic rubber
Reinforcement : 6 wire spirals
Outer cover : chloroprene rubber
Outer finish : wrapped
Temperature : - 40°C to +100°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Reinforcement outer diameter	Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	mm	bar	bar	bar	mm	Kg/m
9938744	6	9,5	3/8”	19,6	24	1450	1820	3625	200	1,135
9938844	8	12,7	1/2”	22,3	29	1450	1820	3625	250	1,420
9938944	12	19	3/4”	30,8	34	1350	1690	3375	300	2,140
9939044	16	25,4	1”	38,1	43	900	1150	2300	350	3,210

MARKING : TECALEMIT FLEXIBLES - PART N° - DN (MM/INCH) - BATCH N°

THERMOPLASTIC HOSES

TECALEMIT FLEXIBLES® - Parc d'activités de Kermaria, 29120 Pont l'Abbé - France
Tel : (33) 02 98 82 48 48 - E-mail : info@tecalemit.com

T 711

T 711 TWIN

T 711 - HYDRAULIC HOSE HIGH PRESSURE, INNER TUBE POLYESTER, OUTER COVER PU 1 STEEL BRAID

The T711 hose is intended for hydraulic applications mainly on equipment for handling and farming.
Llightweight, it resists high pressures and has a low bend radius for a thermoplastic hose.
it is possible to produce this hose in a multitube version (up to 10 lines).

Technical specifications :
Inner tube : translucid polyester
Reinforcement : 1 steel braid
Outer cover : polyurethane
Outer finish : shiny
Temperature : - 40°C to +100°C
Production lengths : 200 m
Colour : shiny black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9980903	2	3,2	1/8"	8,2	325	1300	30	0,110
9980904		4,1	5/32"	9	300	1200	30	0,113
9980905	3	5	3/16"	9,5	293	1172	35	0,130
9980906	4	6,5	1/4"	12	287	1148	40	0,170
9980908	5	8	5/16"	13	217	868	50	0,167
9980910	6	9,7	3/8"	15,5	212	848	60	0,240
9980913	8	13	1/2"	18,6	185	740	80	0,286
9980916	10	16,5	5/8"	22,5	150	600	120	0,384
9980920	12	19,5	3/4"	25,7	125	500	160	0,423
9980925	16	25	1"	31,5	100	400	200	0,496

T 711 TWIN - HYDRAULIC HOSE HIGH PRESSURE, INNER TUBE POLYESTER, OUTER COVER PU 1 STEEL BRAID

By welding of any hoses with the same cover composition.
For installation end-fittings, it is easy to separate the hoses using a cutting tool.
Twin Hoses: All combination are possible from 3/16" to 1"

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9982906	4	6,5	1/4"	12	287	1148	40	0,34
9982908	5	8	5/16"	13	217	868	50	0,36
9982910	6	9,7	3/8"	15,5	212	848	60	0,48
9982913	8	13	1/2"	18,6	185	740	80	0,57

MARKING : TECALEMIT FLEXIBLES - PART N° - DN (MM/INCH) - BATCH N°

T 710

T 710 TWIN

T 710 SAE 100 R7 - HYDRAULIC HOSE MEDIUM PRESSURE, INNER TUBE POLYESTER, OUTER COVER PU - 2 POLYESTER BRAIDS

Intended for mid-range pressure hydraulic applications and gases (on request - outer cover microperforated), the T710 hose is lightweight, non-polluting and used in sophisticated hydraulic circuits using servo-valves.
It is also compact and impervious, reasons for which, it is appreciated on handling equipment.
its polyamide tube is compatible with many solvents and paints, according to the chemical compatibility chart.
It is possible to produce this hose in a multitube version (up to 10 hose lines).

Technical specifications :
Inner tube : polyester
Reinforcement : 2 polyester braids
Outer cover : polyurethane
Outer finish : shiny and smooth
Temperature : - 40°C to +100°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9980705	3	4,8	3/16”	10,5	230	460	920	35	0,08
9980706	4	6,4	1/4”	12,6	200	400	800	40	0,11
9980708	5	7,9	5/16”	14,5	190	380	760	50	0,12
9980710	6	9,5	3/8”	16,2	175	350	700	60	0,14
9980713	8	12,7	1/2”	20,1	150	300	600	80	0,20
9980716	10	15,9	5/8”	23,6	125	250	500	120	0,27
9980720	12	19,1	3/4”	27,2	100	200	400	150	0,30
9980725	16	25,4	1”	34,5	75	150	300	200	0,36

T 710 SAE 100 R7 TWIN - HYDRAULIC HOSE MEDIUM PRESSURE, INNER TUBE POLYESTER, OUTER COVER PU - 2 POLYESTER BRAIDS

By welding of any hoses with the same cover composition.
For swaging the fittings it is easy to cut the weld with a sharpened tool.
Twin Hoses: All combination are possible from 3/16“ to 1“

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9980730	3	4,8	3/16”	10,5	230	460	920	35	0,16
9980731	4	6,4	1/4”	12,6	200	400	800	40	0,22
9980732	5	7,9	5/16”	14,5	190	380	760	50	0,24
9980733	6	9,5	3/8”	16,2	175	350	700	60	0,28
9980734	8	12,7	1/2”	20,1	150	300	600	80	0,40

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R7 - DN (MM/INCH) - BATCH N°

T 810

T 810 SAE 100 R8 - HYDRAULIC HOSE HIGH PRESSURE, INNER TUBE POLYESTER, OUTER COVER PU – 1 ARAMIDE BRAID

Intended for high pressure hydraulic applications and gases (with additional microperforations of outer cover), it is used on dockside handling equipment and in the offshore industry for remote controls as it is available in very long lengths and has a low volumetric expansion (2-3% at working pressure).
It is also appreciated in the chemical industry for its compatibility with many chemical products.
it is possible to produce this hose in a multitube version (up to 10 lines).

Technical specifications :
Inner tube : polyester
Reinforcement : 1 aramide braid
Outer cover : polyurethane
Outer finish : shiny
Temperature : - 40°C to +100°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	bar	mm	Kg/m
9980805	3	4,8	3/16”	10,5	345	690	1380	89	0,09
9980806	4	6,4	1/4”	12,6	345	690	1380	102	0,11
9980808	5	7,9	5/16”	14,5	310	620	1240	110	0,12
9980810	6	9,5	3/8”	16,2	275	550	1100	127	0,18
9980813	8	12,7	1/2”	20,1	240	480	960	178	0,23
9980816	10	15,9	5/8”	23,6	190	380	760	203	0,26
9980820	12	19,1	3/4”	27,2	155	310	620	241	0,37
9980825	16	25,4	1”	34,5	138	276	552	305	0,53

MARKING : TECALEMIT FLEXIBLES - PART N° - SAE 100 R8 - DN (MM/INCH) - BATCH N°

TTA

TTA - HYDRAULIC HOSE MEDIUM AND HIGH PRESSURE, INNER TUBE PA, OUTER COVER PA 1 POLYESTER BRAID

The TTA hose is intended for hydraulic circuits in agressive environments (spraying equipment), or for transfer of corrosive products and centralised lubrication.
Reusable JIC female fittings are available.

Technical specifications :
Inner tube : polyamide
Reinforcement : 1 polyester braid
Outer cover : superpolyamide
Outer finish : smooth
Temperature : - 40°C to +100°C - peaks of 140°C
Production lengths : variable and long lengths
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
25210181		1,8		4,5	480	1200	18	0,012
25220201		2		4,9	461	1152	20	0,016
25210251		2,5		5,9	440	1100	25	0,024
9928301		4,0		8,1	370	925	40	0,040
9928401		5,5	3/16"	9,5	245	680	50	0,050
9928501	4	6,35	1/4"	11,4	225	560	63	0,070
9928601	5	8	5/16"	13,8	180	500	80	0,100
9928701	6	10,3	3/8"	17	160	420	100	0,150
9928801	8	13	1/2"	19,5	140	360	130	0,170

MARKING : TECALEMIT FLEXIBLES - PART N° - TTA - DN (MM/INCH) - BATCH N°

TTAF

TTAF - HYDRAULIC HOSE MEDIUM AND HIGH PRESSURE, INNER TUBE PA, OUTER COVER PU 1 POLYESTER BRAID

Ancestor of the SAE100R7 hose, this hose retains the advantage of using reusable fittings.
This medium-pressure hose can be used on circuits for hydraulics, CO2, automatic lubrication, paint and chemical products.

Technical specifications :
Inner tube : polyamide
Reinforcement : 1 polyester braid
Outer cover : polyurethane
Outer finish : shiny
Temperature : - 40°C to +100°C
Production lengths : variable
Colour : shiny black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9984204		4,0		8,1	325	800	40	0,04
9984205	3	5		9,5	245	680	50	0,05
9984206	4	6,35	1/4”	11,4	225	560	63	0,07
9984208	5	8		13,8	180	500	80	0,10
9984210	6	10,3		17	160	420	100	0,15
9984213	8	13		19,5	140	360	130	0,17

MARKING : TECALEMIT FLEXIBLES - PART N° - TTA - DN (MM/INCH) - BATCH N°

TTK

TTK - HYDRAULIC HOSE HIGH AND VERY HIGH PRESSURE, INNER TUBE PA, OUTER COVER PA 1 ARAMIDE BRAID

This very high pressure hose is mainly intended for circuits in hydraulics, centralised lubrication, CO2, chemical products, test benches, even in agressive environments.
it is used with JIC female reusable fittings.
It can be produced in very long lengths for offshore applications.
Tthis hose can also be produced in multitube versions.

Technical specifications :
Inner tube : polyamide
Reinforcement : 1 aramide braid
Outer cover : polyamide
Outer finish : shiny
Temperature : - 40°C to +100°C - peaks of 140°C
Production lengths : variable
Colour : black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9980302		2		4,8	800	2000	30	0,021
9980303		3		5,8	680	2000	35	0,032
9980304		4,0		8,1	680	2000	40	0,045
9980305	3	5	3/16”	9,5	530	1600	50	0,050
9980306	4	6,35	1/4”	11,4	450	1300	63	0,070
9980308	5	8	5/16”	13,8	370	1100	80	0,110
9980310	6	10,3	3/8”	17	300	900	100	0,160
9980313	8	13	1/2”	19,5	230	700	130	0,180

MARKING : TECALEMIT FLEXIBLES - PART N° - TTK - DN (MM/INCH) - BATCH N°

TTKF

TTKF - HYDRAULIC HOSE HIGH AND VERY HIGH PRESSURE, INNER TUBE PA, OUTER COVER PU 1 ARAMIDE BRAID

The TTKF hose is intended for very high pressure hydraulic applications and gases with additional microperforations similar to hose type T810, with the advantages of being equipped with reusable fittings and being produced in very long lengths.

Technical specifications :
Inner tube : polyamide
Reinforcement : 1 aramide braid
Outer cover : polyurethane
Outer finish : shiny
Temperature : - 40°C to +100°C
Production lengths : variable
Colour : shiny black

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9983304		4,0		8,1	680	2000	40	0,05
9983305	3	5		9,5	530	1600	50	0,05
9983306	4	6,35	1/4"	11,4	450	1300	63	0,07
9983308	5	8		13,8	370	1100	80	0,11
9983310	6	10,3		17	300	900	100	0,16
9983313	8	13		19,5	230	700	130	0,18

MARKING : TECALEMIT FLEXIBLES - PART N° - TTKF - DN (MM/INCH) - BATCH N°

T 712

T 713

T 712 - HYDRAULIC HOSE HIGH PRESSURE FOR PAINTS, INNER TUBE PA, OUTER COVER PU 1 STEEL BRAID

For water based fluids, solvents, paints and hydraulic oils at high pressure.

Technical specifications :
Inner tube : Polyamide
Reinforcement : 1 steel braid
Outer cover : polyurethane
Outer finish : shiny
Temperature : - 40°C to +100°C
Production lengths : variables
Colour : Blue

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9981005	3	5	3/16"	9,5	293	1172	35	0,128
9981006	4	6,5	1/4"	12	287	1148	40	0,165
9981008	5	8	5/16"	13	217	868	50	0,162
9981010	6	9,7	3/8"	15,5	212	848	60	0,231

T 713 - HYDRAULIC HOSE HIGH PRESSURE FOR PAINTS, INNER TUBE PA, OUTER COVER PU 2 STEEL BRAIDS

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9981106	4	6,5	1/4"	13	390	1560	40	0,274
9981110	6	9,7	3/8"	17	315	1260	60	0,424

MARKING : TECALEMIT FLEXIBLES - PART N° - DN (MM/INCH) - BATCH N°

HYDRAULIC HOSES FLUOROCARBON FKM

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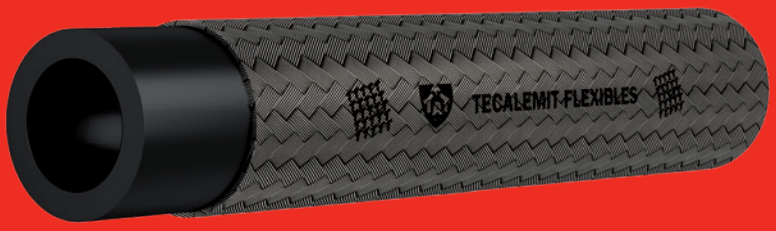
VI



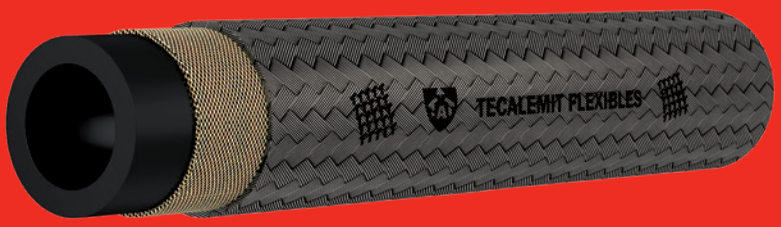
VI - HIGH PRESSURE HOSE FOR THE IRON AND STEEL INDUSTRY, OUTER COVER 1 STAINLESS STEEL 316 BRAID

This hose can convey oil at a maximum temperature of 180°C as well as many hydrocarbons as indicated in the chemical compatibility chart.
Braiding with stainless braiding is carried out before vulcanisation.
Its excellent mechanical properties make it a good alternative to corrugated stainless steel hoses in the presence of torsion, flexion, traction.

Technical specifications :
Inner tube : FKM synthetic rubber
Reinforcement : 1 stainless steel 316 braid
Outer finish : stainless steel
Inner tube working temperature : +35°C to +180°C
Production lengths : variables
Colour : stainless steel

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	Kg/m
9939214	4	6,4	1/4"	12	110	440	35	0,16
9939314	5	8	5/16"	14	100	400	45	0,20
9939414	6	9,5	3/8"	15,5	97	390	50	0,27
9939514	8	12,7	1/2"	19,5	90	360	60	0,37
9939616	10	16	5/8"	23	85	340	80	0,47
9939714	12	19	3/4"	26,5	78	315	94	0,52
9939814	16	25,4	1"	34	65	260	115	0,78

MARKING : NONE



VKI

VKI - HIGH PRESSURE HOSE FOR THE IRON AND STEEL INDUSTRY, OUTER COVER 1 STAINLESS STEEL 316 BRAID - 1 ARAMIDE BRAID

This high quality hose is comprised of an inner tube compatible with oils up to 180°C (it is used for lubrication of automobile turbo-compressors), covered with an aramide braid acting as a thermal shield (for use in hot environments), then covered with a stainless steel braid which has two functions : mechanical protection of the aramide braid and improvement in pressure resistance.
This hose can convey fluids as per the chemical compatibility chart.
Please consult us for dynamic pressure use.

Technical specifications :
Inner tube : FKM synthetic rubber
Reinforcement : 1 aramide braid
Outer cover : 1 stainless steel 316 braid
Outer finish : shiny
Inner tube working temperature : +35°C to +180°C in 300°C continuous environment
Production lengths : variables
Colour : stainless steel

Part N°	Dash	Inner diameter		Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		mm	Inch	mm	bar	bar	mm	kg/m
9930107	3	5	3/16”	11	207	827	51	0,15
9932415	4	6,4	1/4”	14,1	190	759	76	0,29
9932416	5	8	5/16”	14,5	172	690	80	0,24
9932414	6	9,5	3/8”	15,5	155	621	80	0,30
9932417	8	12,7	1/2”	19,5	138	552	102	0,34
9932418	10	16	5/8”	23	103	414	127	0,42
9932419	12	19	3/4”	26,6	86	345	241	0,48
9932420	16	25,4	1”	35,2	69	276	305	0,76

MARKING : NONE

HYDRAULIC HOSES PTFE

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T HP1

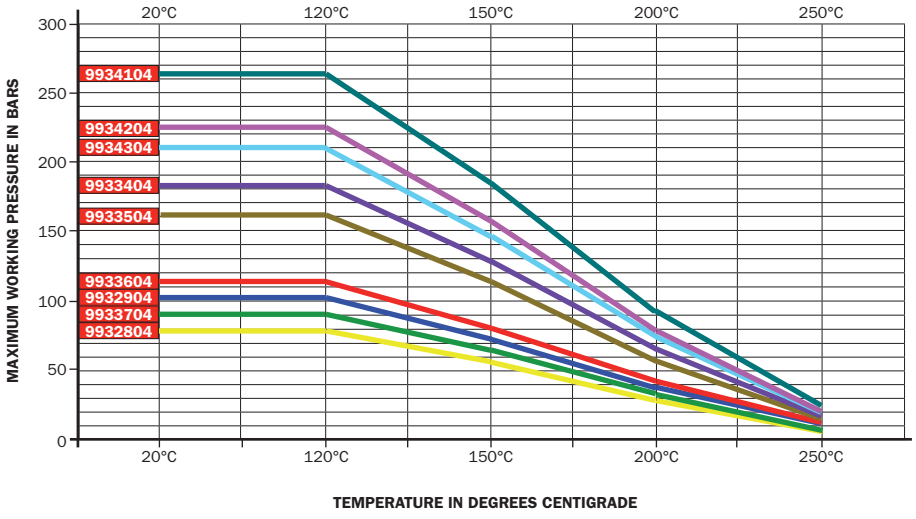
T HP1 - PTFE HOSE WITH ONE STAINLESS STEEL BRAID

The inner tube of hose type THP1 is in pure polytetrafluorethylene (PTFE), allows use of food products.
This mid-range pressure hose is compatible with a large number of fluids : hydraulic oils, high temperatures, chemical products as indicated in the fluid compatibility chart, steam, products for treating wood, steam up to 230°C, food products.
The THP1 hose can also accept swaged fittings from our range using ferrule type 5080.
Non-conductive in the standard version, it can also be supplied in another version to eliminate static electricity.

Technical specifications :
Inner tube : pure polytetrafluorethylene
Reinforcement : 1 stainless steel AISI 304 braid
Outer finish : stainless steel braid
Inner tube working temperature : -70°C to +260°C
Production lengths : variable
Marking : none

Part N°	Dash	Inner diameter (mm)				Thickness	Reinforcement outer diameter (mm)		Working pressure	Pression L.N.E	Bend radius	Weight
		Inch	mm	Min.	Max.	mm	Min.	Max.	bar	bar	mm	gr/m
9934104	3	3/16"	5,1	4,85	5,36	0,9	7,49	8,61	264	793	64	94
9934204	4	1/4"	6,7	6,45	6,96	0,75	8,83	9,86	224	672	76	92
9934304	5	5/16"	8,4	8,15	8,66	0,65	10,54	11,56	207	621	102	141
9933404	6	3/8"	10,3	9,93	10,64	0,65	12,78	14,1	183	552	133	148
9933504	8	1/2"	13,4	13,06	13,36	0,9	15,88	17,22	161	483	152	249
9933604	10	5/8"	16,6	16,1	17,12	0,9	18,95	20,57	114	345	178	290
9932904	12	3/4"	19,8	19,3	20,32	1	22,15	23,77	103	310	203	339
9933704	14	7/8"	22,1	21,59	22,61	1	24,46	26,09	92	276	229	382
9932804	16	1"	26,1	25,6	26,62	1,2	28,45	30,07	80	241	305	461

Table of temperature/working pressure:



MARKING : NONE

T HP2

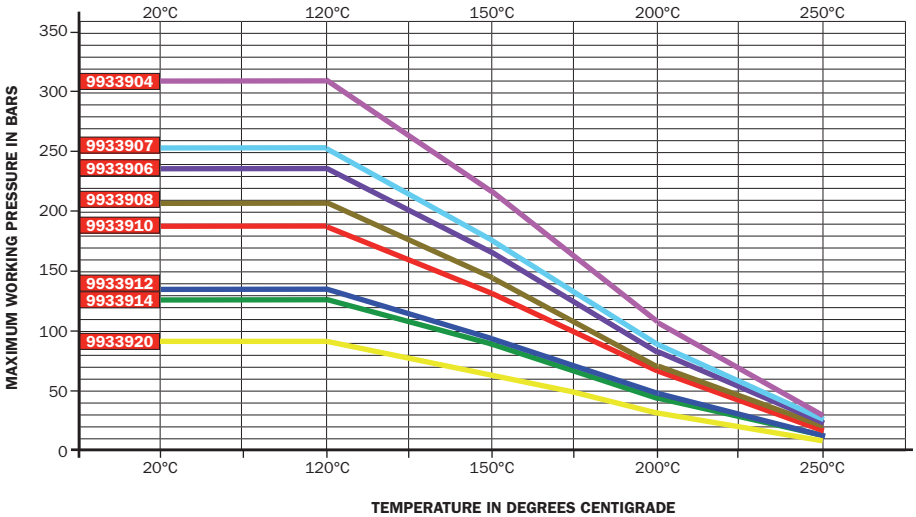
T HP2 - PTFE HOSE WITH TWO STAINLESS STEEL BRAIDS

The inner tube of the THP2 hose is extruded from pure polytetrafluorethylene (PTFE) resins.
It is then covered with two AISI 304 stainless steel braids.
It can accept the majority of chemical products and is very resistant to aging.
Our standard range of fittings can be swaged on the THP2 hose for use at static pressure values indicated in the table.
Non-conductive in the standard version, it can also be supplied in another version to eliminate static electricity.

Technical specifications :
Inner tube : pure polytetrafluorethylene
Reinforcement : 2 stainless steel AISI 304 braid
Outer finish : stainless steel braid
Inner tube working temperature : -70°C to +260°C
Production lengths : variable

Part N°	Dash	Inner diameter				Thickness	Outer diameter	Working pressure	Burst pressure	Bend radius	Weight
		Inch	mm	Min.	Max.	mm	mm	bar	bar	mm	gr/m
9933904	3	3/16"	5,1	4,85	5,36	0,90	9,07	310	931	75	152
9933907	4	1/4"	6,7	6,45	6,96	0,76	10,47	253	759	85	179
9933906	5	5/16"	8,4	8,15	8,66	0,64	12,57	237	710	10	241
9933908	6	3/8"	10,3	9,93	10,64	0,90	14,68	206	621	135	311
9933910	8	1/2"	13,4	13,06	13,36	0,90	18,09	189	566	165	411
9933912	10	5/8"	16,6	16,1	17,12	0,90	20,88	133	414	195	470
9933914	12	3/4"	19,8	19,3	20,32	1,00	25,54	126	379	225	551
9933916	14	7/8"	22,1	21,59	22,61	1,00	26,80	115	345	230	623
9933920	16	1"	26,1	25,6	26,62	1,20	30,79	93	280	305	732

Table of temperature/working pressure:



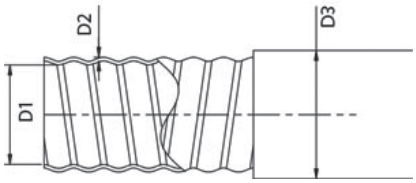
MARKING : NONE

T HP3

T HP3 - CONVOLUTED PTFE HOSE WITH ONE STAINLESS STEEL BRAID

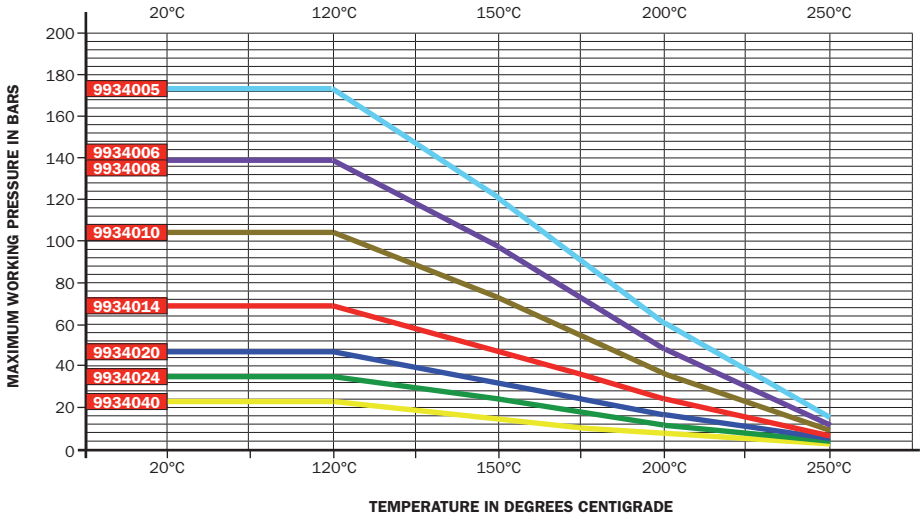
The THP3 hose is made from a pure PTFE tube with a low amplitude helicoidal convolution, allowing it to be swaged with our standard range of fittings with excellent flexibility and bend radius compared to smooth bore hose types THP1 and THP2.
In the same way, it accepts food products and a large range of chemical products as indicated in the chemical compatibility chart.
Non-conductive in the standard version, it can also be supplied in another version to eliminate static electricity.

Technical specifications :
Inner tube : helicoidally convoluted pure polytetrafluorethylene
Renforcement : 1 stainless steel AISI 304 braid
Outer finish : stainless steel braid
Inner tube working temperature : -70°C to +260°C
Production lengths : variable



Part N°	Dash	Inner diameter		Tol. D1 mm		D2 mm	D3 mm		Working pressure 20°C	Burst pressure 20°C	Bend radius	Weight
		Inch	mm	Mini	Maxi	Mini	Mini	Maxi	bar	bar	mm	gr/m
9934005	4	1/4"	6,2	6,10	6,70	0,75	9,30	9,90	172	517	18	140
9934006	5	5/16"	8,4	7,90	8,50	0,6	12,30	12,90	138	414	20	160
9934008	6	3/8"	10,3	9,5	10,20	0,65	12,80	14,50	138	414	20	152
9934010	8	1/2"	13,4	12,45	13,08	0,8	17,80	19,20	103	310	25	253
9934012	10	5/8"	16,6	15,7	16,38	0,8	21,80	24,00	83	248	51	304
9934014	12	3/4"	19,8	19	19,65	1	24,00	27,00	69	207	64	374
9934016	14	7/8"	22,1	21,84	22,86	1	27,94	29,46	57	172	76	460
9934020	16	1"	26,1	25,5	26,16	1	32,20	36,10	46	138	89	543
9934024	20	1 1/4"	31,8	31,95	32,46	1	40,20	41,30	34	103	125	635
9934032	24	1 1/2"	38,2	38,00	38,90	1	47,80	49,00	30	90	152	840
9934040	32	2"	50,8	50,90	51,90	1,1	60,50	62,30	23	69	200	1000

Table of temperature/working pressure:



MARKING : NONE

PROTECTION SHEATH FOR HYDRAULIC HOSES & ELECTRICAL CABLES

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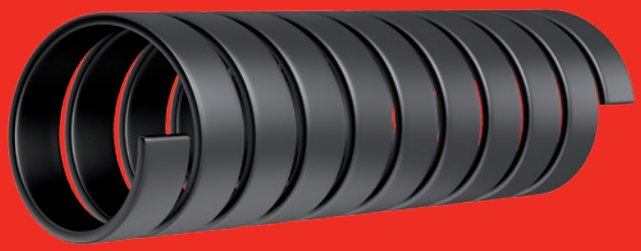


GSP

GSP - SPIRAL GUARD

The spiral guard made from polyethylene (PE) is a very flexible protective girdle and is mainly used in bays waiters, electric cupboards, the office automation, the automobile, the public works and the aviation.
Her spiral structure allows her to be rolled up around cables or around already put flexible hoses.
She is reusable, resistant in most of the chemicals
Her temperature of continuous service is situated between -20°C in + 60°C.

Technical specifications :
Gaine : Polyethylene
Outer finish : Spiral
Temperature : -20°C à + 60°C
Colour : Black, other colours & lengths upon request
Marking : none

Part N°	Inner diameter	Outer diameter	Wall thickness	Coil tightness	Length min.	Weight
	(mm)	(mm)	(mm)	(mm)	(m)	(kg/m)
8607855	7,5	10	1,25	9	20	0,032
8607849	9,5	12	1,25	11	20	0,039
8607862	13	16	1,5	15	20	0,064
8607856	16	20	2	22,5	20	0,106
8607850	20	25	2,5	28	20	0,166
8607851	24	29	2,5	30	20	0,196
8607852	27	32	2,5	30	10	0,217
8607857	30	35	2,5	28	10	0,239
8607854	35	40	2,5	28	10	0,276
8607859	44	50	3	28	2	0,415
8607860	50	60	5	28	2	0,810
8607861	60	70	5	32	2	0,958
8607863	65	75	5	32	2	1,032
8607864	75	85	5	35	2	1,180
8607865	80	90	5	35	2	1,252
8607866	100	110	5	35	2	1,548

PROTECALAN

PROTECALAN WOVEN SHEATH

The Protecalan woven sheath is mainly used on secured hydraulic hoses, but it is also suited to the protection of flexible electric cables and all types of flexible hoses.

Technical specifications :
Sheath: Woven with high antistatic tenacity
Maximum operation temperature: 110°C
Colour : Black

Sheath	
Part N°	**Dia. sheath (mm)**
M7853000070036	41
M7853000070045	51
M7853000070057	64
M7853000070070	83
M7853000070075	95
M7853000070101	109

MARKING : NONE

GA

GA - SILICONE COATED FIBREGLASS SHEATHING

The GA sheathing is a mineral fibre braided sheath coated with fire-resistant silicone rubber.
It is intended to protect hoses or cables, with the fibre braid ensuring thermal protection and the silicone coating ensuring impermeability and resistance to flames.
Moreover, the silicone outer cover mechanically protects the braid and increases thermal protection.
Destructive tests have indicated a life span of 15 minutes at 1100°C and one minute at 1500°C.
The GNS sheathing can be supplied in thicknesses of 4mm in any diameter for extreme applications.
It does not contain asbestos.

Technical specifications :
Inner tube : Braid of fiberglass
Outer cover : Silicone waterproof fireproof
Colour : red
Outer finish : Smooth
Temperature : - 60°C to + 260°C

Part N°	Inner diameter		Outer diameter	Wall thickness	Weight	Packaging
	mm	Inch	mm	mm	Kg/m	m
8607060	6	1/4"	7,5	0,7	0,02	100
8607061	8	5/16"	9,5		0,04	100
8607062	10	3/8"	11,8		0,05	100
8607063	12		13,8		0,06	100
8607064	14		15,8		0,06	50
8607065	15		16,8	0,9	0,07	50
8607066	18		19,8		0,08	50
8607067	20		21,8		0,09	50
8607068	22	7/8"	23,8		0,11	25
8607069	25	1"	27,4	1,0	0,16	25
8607070	28		30,6	1,3	0,18	25
8607071	30		32,8	1,4	0,21	25
8607072	35	1"3/8	39		0,33	25
8607073	40		44		0,36	25
8607074	52		56	2,0	0,23	10
8607075	70		74		0,3	10
8607076	90	3"1/2	94		0,4	10
8607005	8	5/16"	16		0,18	30
8607008	10	3/8"	18		0,14	30
8607007	13	1/2"	21		0,23	30
8607011	16	5/8"	24		0,3	10
8607012	18		26		0,24	10
8607015	20		28		0,24	10
8607019	22	7/8"	30		0,31	10
8607021	25	1"	33		0,35	10
8607023	30		38		0,36	10
8607025	32	1"1/4	40		0,38	15
8607028	35		43	4,0	0,42	10
8607029	38	1"1/2	46		0,45	15
8607032	40		48		0,46	10
8607033	45	1"3/4	53		0,49	10
8607037	50	2"	58		0,54	10
8607038	57	2"1/4	65		0,6	10
8607039	60	2"3/8	68		0,65	10
8607040	64	2"1/2	72		0,68	5
8607043	76	3"	84		0,88	5
8607046	90	3"1/2	98		0,96	5
8607049	102	4"	110		1,17	5

MARKING : NONE

137

137 - FLEXIBLE PROTECTION SHEATH FOR ELECTRICAL CABLES AND HOSES

Sheathing REF 137 is intended to protect flexible electrical cables and hoses.
Its qualities are its great flexibility, its light weight and its thin wall.
Its black rubber outer wrapped finish is abrasion and weather resistant.
Produced on mandrils, it is available in a wide range of diameters.

Technical specifications :
Inner tube : beige rubber covered textile plies
Outer finish : SBR/EPDM rubber
Outer finish : wrapped
Production lengths : 40 metres
Colour : black

Part N°	Inner diameter		Outer diameter	Wall thickness	Working pressure	Burst pressure	Bend radius	Weight
	mm	Inch	mm	mm	bar	bar	mm	kg/m
137 19	19	3/4"	22	1.5	-	-	-	0,13
137 25	25,4	1"	28	1.5	-	-	-	0,14
137 28	28,5	1"1/8	31	1.5	-	-	-	0,18
137 30	30	1"1/4	34	1.5	-	-	-	0,26
137 35	35	1"3/8	38	1.5	-	-	-	0,22
137 40	40	1"9/16	44	2	-	-	-	0,30
137 45	45	1"3/4	48,5	1.5	-	-	-	0,38
137 51	50,8	2"	54	1.5	-	-	-	0,32
137 57	57,1	2"1/4	60	1.5	-	-	-	0,33
137 60	60	2"3/8	63	1.5	-	-	-	0,42
137 63	63,5	2"1/2	66	2.0	-	-	-	0,31
137 70	70	2"3/4	74	2.0	-	-	-	0,50
137 76	76,2	3"	80	2.0	-	-	-	060
137 90	90	3"9/16	95	2.5	-	-	-	0,70
137 100	101,6	4"	105	2.5	-	-	-	0,80

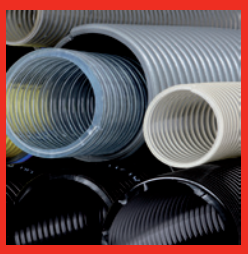
MARKING : NONE

Rubber hoses

Hydraulic hoses

Hydraulic couplings



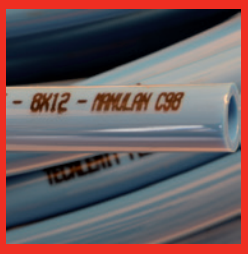
Swage fittings & ferrules


Grease nipples




Technical tubes



Hydraulic adapters

Rubber hoses off-shore

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General terms & conditions of sale

Terms of Sales
The information were concerned catalogs, notes and scales are given only as a rough guide and do not commit the seller. The seller is bound by the commitments of his representatives or employees only subject to confirmation emanating from himself The offers are valid only within the limits of the deadline of option. Unless otherwise stipulated, this deadline is of 1 month. The additional stationery are the object of a new offer of the seller. It is that after express acceptance by the seller of order of the buyer that both parts are bound by the sale contract. Except special convention noticed, the acceptance of the offer by the customer involves its membership in the present general terms of sale. In the hypothesis where the buyer would intend to take advantage of opposite clauses, he will have to send to our company a registered letter with recorded delivery in 15 days following his knowledge of the present general terms of sale. A negotiation can then make a commitment to reach a possible agreement between the parties. Since the deadline of 15 days will be sold without appearance of will on behalf of the buyer, the present general terms of sale will be considered as irrevocably accepted without any reserve.

Terms of delivery
Goods are sold, taken and approved in factories or store of the seller, even if the postage-paid is granted. If the shipping is delayed by the buyer and the seller grants it, goods are stored and handled at expenses and risks of the buyer without responsibility for the seller. These measures modify not at all the obligations for payment of the supply and establish no novation to the sale contract. Goods always travel at the risks and the dangers of the buyer, except his recourse against the carrier. It falls to the buyer, when he is himself an addressee of the sending, or to his representative when the buyer makes manage the sending to a third party, to receipt dated to the carrier only having made sure that stationery were delivered to him for the normal deadlines and good state. In case of damage or of absent person, the addressee has to achieve all the formalities of law (in particular reserves on it) The choice of the carrier by the seller does not modify these obligations of the buyer. Except the case where the buyer wishes to choose the carrier or to define condition of the carrier, the shipping are made according to the seller by every possible means by transport, in the most reduced rate. If the buyer imposes his carrier or conditions of transport particular, the seller is entitled to charge him the supplement of the transport costs which he can be brought to support of this fact.

Packaging
The seller incurs no responsibility of the fact that stationery would not have been packed, in the absence of precise commitment of its part on this point in the sale contract.

Property reserve
Ownership transfer of the goods is suspended from the complete payment of their price, in main thing and accessories, the risks, the loss or the deterioration of these goods as well as the damage which they could cause falling however to the buyer from the stake of these at his disposal. The seller will benefit from the right of resumption, consequence of the transfer postponed from the property and if he is put obstacle to this resumption address Mister President of the Commercial court of Quimper ruling in emergency proceeding, so that he orders it. The buyer will have to watch that the identification of the goods is always possible. Products in stock are presumed to be the ones to pay.

Studies and projects
The studies and documents of all kinds transmitted by the seller always stay its whole property. They must be restored to him on his demand. The seller preserves entirely the intellectual property of these projects which can be neither communicated nor executed without his written authorization.

Delivered quantities
The charged quantities are the ones which were really delivered. They can postpone ordered quantities without this fact can entail a contesting on behalf of the buyer.

Delivery deadlines
The delivery deadlines indicated by the seller get on from the date of the acknowledgement of receipt of order. Except express agreement these deadlines are given only as a rough guide and are not rigorous, their overtaking can entail neither cancellation of the order, nor compensation. Even in the case of formal acceptance by the seller, of deadlines the overtaking of which would entail penalties, the execution of stationery can be suspended or delayed without compensation chargeable to the seller if the terms of payment are not observed by the buyer or if the information to be supplied by this last one did not reach the seller in due course. The war, the strikes, the epidemics, the total or partial interruption of transport, the shortage of raw materials, the hindrances resulting from measures of the authority regarding import of responsibility or internal economic regulations, the incidents or accidents of any causes

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entailing the unemployment of everything of all or any factories, the fire, the flood, the breaking of machine, the difficulties of transport, the accident of manufacturing, the imperfection of the raw material as a result of the deficiency of a supplier, quite other accident or the not attributable event to the seller and presenting an irresistible and unpredictable character which prevents or reduces the manufacturing, is considered as cases of absolute necessity and unload our company of the obligation to deliver, without compensation neither damage interests and, in a general way, any coincidences or of circumstances outside one's control authorizing by rights the suspension of the current contracts or their late execution without compensation(allowance) nor damage.

Prices

Prices are established on the basis of the economic conditions indicated in the offers. They are revisable according to the variation of the costs of their constituent elements within the framework of the legislation in force. Charged prices are the ones current, in particular if necessary according to price lists or scales, the day of the provision of stationery. The variations of price can be, on no account, a motive for termination of the order. Minimum order and postage-paid: these conditions are defined on our price lists.

Payment

The fact that the product is made available to the client triggers invoicing. Supplies shall be paid to the head-office of the vendor within 30 days, or if a specific agreement has been made, by the date stated on the invoice. For any payment made before the due date, the vendor shall offer a discount, the conditions of which are indicated on the invoice. Any amount due and not paid in time shall be subject to interests as a matter of law, and a final notice shall be issued. Interests shall be applied at the legal rate in force plus 50%. These interests shall be invoiced separately at the end of the month. If the buyer does not pay an invoice by its due date, all other invoices become due immediately, even if they had previously given rise to commercial agreements and all sales not yet fully completed and paid shall be void as a matter of law, if this is the choice of the vendor, after a final notice to pay indicating the vendor intends to invoke this clause has been issued and has not been immediately followed by a response from the buyer. The vendor shall then be entitled to repossess or mandate someone to repossess the supplies if their sale has been cancelled as a matter of law. It the buyer objects to this repossession, the vendor can contact the President of the Trade Court of Quimper, ruling in summary proceedings, so that an order is issued. In application to what is mentioned above, received payments shall be applied in priority to supplies not recovered in kind. For any future order, the vendor shall be entitled to demand full payment is made prior to shipping. Any change in the situation of the buyer, such as the sale or placement in collateral of all or part of the business, death, incapacity, dissolution or change in company status, even after the partial execution of the contract or order, shall lead to the application of the same provisions as those mentioned in case of non-payment of invoices.

Warranty

Unless otherwise stipulated, orders are executed according to the standards it exists and with tolerances of use in current quality and without respect in the special use there for which the buyer intends them. The desk clerk has to verify immediately the quantity, the weight, the dimensions and the quality. Goods are guaranteed against the not visible defects of material and manufacturing and against the latent defects during 12 months as from their starting, and at the latest 18 months after the date of provision. During this warranty period, any complaint will necessarily have to be formulated by registered letter with recorded delivery at the latest within one month after the discovery of the defects or the vices and any action must, to be acceptable, be instituted for the deadline of use of 2 months following the complaint. The seller can have only in the pure and simple replacement, in the price list of the most reduced transport, the defective recognized goods without other allowance, so replaced stationery staying its property. The imperfections resulting from a storage, from an assembly or from a use of goods by the clientele in abnormal conditions are excluded from any guarantees, or not corresponding to the rules of art. The seller accepts no return without having authorized him previously.

Test and reception

Goods are checked in the factories of the seller only on the express demand of the buyer and according to the methods suited during the order. The corresponding expenses, in particular the expenses of vacation and report are chargeable to the buyer

Attribution of jurisdiction

In case of contesting, the French law is only application and the courts of the head office of the company are only competent, whatever are the terms of sale and the method of payment suited even in case of call in guarantee or of plurality of applicants or defendants.

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