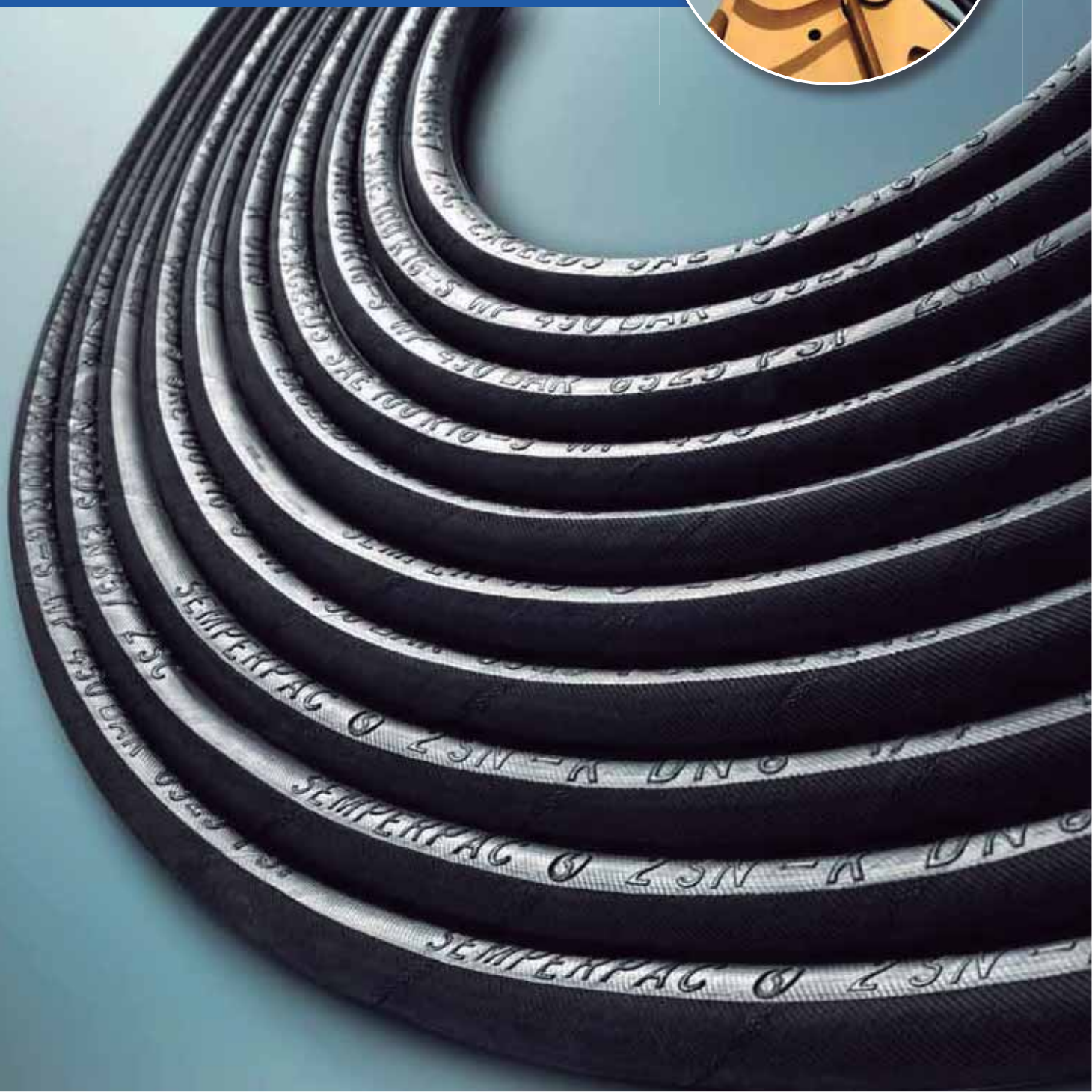


TOP PERFORMANCE UNDER PRESSURE

SEMPERIT Hydraulic and Pressure Washer Hoses





SEMPERIT AT A GLANCE

Almost two centuries of experience, a worldwide presence, and a leading role in the rubber and plastics industry make Semperit your reliable partner.

Semperit AG Holding has been a world-wide leading supplier of natural rubber and plastic products for almost 190 years. We have achieved and maintained this position by focusing on high quality and reliability. Our partners appreciate these strengths, which have made Semperit a global player today.

Semperit products and services capitalise on global trends such as increasing health and hygiene requirements, and increasing industrialisation in emerging markets, supporting our continuous and sustainable growth. Over 9,500 people are employed in our medical and industrial sectors worldwide. With 22 production plants and numerous subsidiaries and sales offices, the Semperit Group has a presence in Europe, Asia, and America, with a diverse product portfolio that is equipped for the constant changes in these markets.

The business activities of Semperit are divided into two sectors: Medical and Industrial.

Our Strategy in a Word: Growth.

Targeting above average growth and a leading global market position for our products is our goal. To achieve this we will strengthen our core competencies, promote internationally, and develop cost leadership in order to become and remain the leader in our target markets.

In both the medical and industrial sectors, the signs point toward growth. Our goal will be to average double-digit turnover and earnings growth by 2015. These growth rates are to be achieved through the expansion of production capacity at existing locations and strategic acquisitions of other companies.

A True Global Player. Semperit is already an international company and further globalisation of the group will be driven by the continued expansion of existing sales channels, and by consistently opening new markets.

A Top Position in all Business Segments. Semperit is a leading global supplier of high quality rubber and plastic products. This has been achieved through outstanding know-how in development, production, and sales.

We succeed through quality, service, and reliability and aim to achieve cost leadership through productivity gains and consistent cost management in all areas. This is the basis for the high level of acceptance of the Semperit brand by our customers.

SEMPERIT

MEDICAL SECTOR

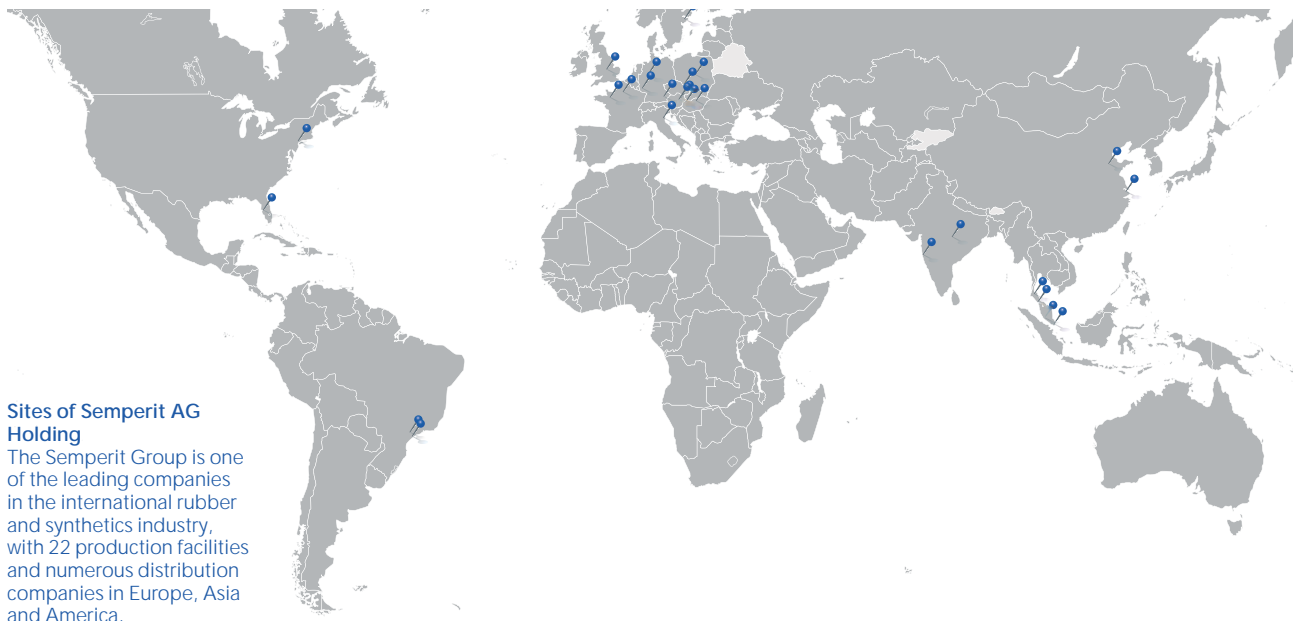
Sempermed examination, surgical and protective gloves

INDUSTRIAL

Semperflex hydraulic and industrial hoses, rubber sheeting

Sempertrans conveyor belts with textile or steel cord

Semperform escalator handrails, building construction profiles, cable car rings, rubber foils and railway superstructure products



We think ahead and act sustainably.

Sustainable corporate management has been a top priority at Semperit since it was founded nearly two centuries ago. Through this, we have created an economic, ecological, and social balance for our long-term success.

Innovation with Tradition. The on-going development of products and the continuing optimisation of production are of central importance for Semperit. The research and development centre in Wimpassing (Austria) acts as a think-tank for processes in all product areas, encouraging the constant exchange of experiences and ideas, which are fed back directly to our production areas as well as to the market. Through the innovations of today, Semperit is creating the foundation for tomorrow's success.

Customer oriented. Uncompromising quality, fair pricing, close-to-market products, and a global presence are expressions of the strong customer orientation at Semperit. We are also distinguished by our level of high reliability, and customers from around the world can rely on our top quality and the best service.

Sustainably Responsible. Sustainable actions and environmental management are part of the Semperit tradition and are deeply rooted in our strategy. We place great importance on fair working conditions, employee benefits, and promotion of the local economy. However, corporate responsibility goes far beyond direct business activities, and Semperit supports a range of social projects in the locations where we are based, as well as a number of global aid agencies.

SEMPERFLEX – TOP PERFORMANCE UNDER PRESSURE

Semperflex develops, produces, and distributes high quality hydraulic and industrial hoses, as well as elastomer sheeting, perfectly adapted for the needs of today's demanding markets.

Semperflex Hydraulic – Meter by meter, gives top performance

Semperflex Hydraulic's effective performance is characterized by its complete range of high quality application-oriented hydraulic hoses.

In addition to classic standardised hose types conforming to worldwide accepted standards, i.e. SAE J 517 and EN 853 to 857, Semperflex has further developed a range of compact hoses to its own specifications, with extraordinary performance values designed for modern high-performance hydraulic applications.

Our standard of products and services is recognized



worldwide as one of the best available in a variety of market segments such as construction, agriculture, material handling, mining, and high pressure cleaning. A globally connected international team of excellent development engineers and technicians, in combination with a worldwide quality control system certified to ISO 9001:2000, ensures our high quality level for today's and tomorrow's market demands.

Professional worldwide local sales offices enable us to react quickly on local customer feedback and market demands.





CONTENT



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A network of application specialists completes our service with expert consulting and advisory services for fittings, crimping, assemblies, and testing.

Our clear dedication to expand our operations throughout the world, with the aim of strengthening our position as one of the leading manufacturers of steel-reinforced hydraulic and pressure washer hoses, combined with the well proven products and high level of service make Semperflex a reliable partner for your current and future secure supply!

SEMPERFLEX – ALWAYS A RELIABLE PARTNER!



HOSES AND WORKING MEDIUM

Our hydraulic hoses are generally suitable for mineral and synthetic oil-based hydraulic fluids (HL, HLP, HLPD, HVLP), for oil-water emulsions (HFAE, HFAS, HFB), and for water-glycol solutions (HFC), as well as for vegetable and mineral oil-based lubricants. In individual cases, there may be use restrictions due to manufacturer-specific oil additives.

Not suitable for hydraulic fluids based on chlorinated hydrocarbons or phosphate esters (HFD-R/S/T)

Suitable for compressed air up to a maximum of 50 bar/ 80°C, with a restricted service lifetime.

In principle, they are suitable for biodegradable hydraulic fluids (bio-oils, HETG, HEPG, HEES), but this may be restricted by manufacturer-specific oil additives.

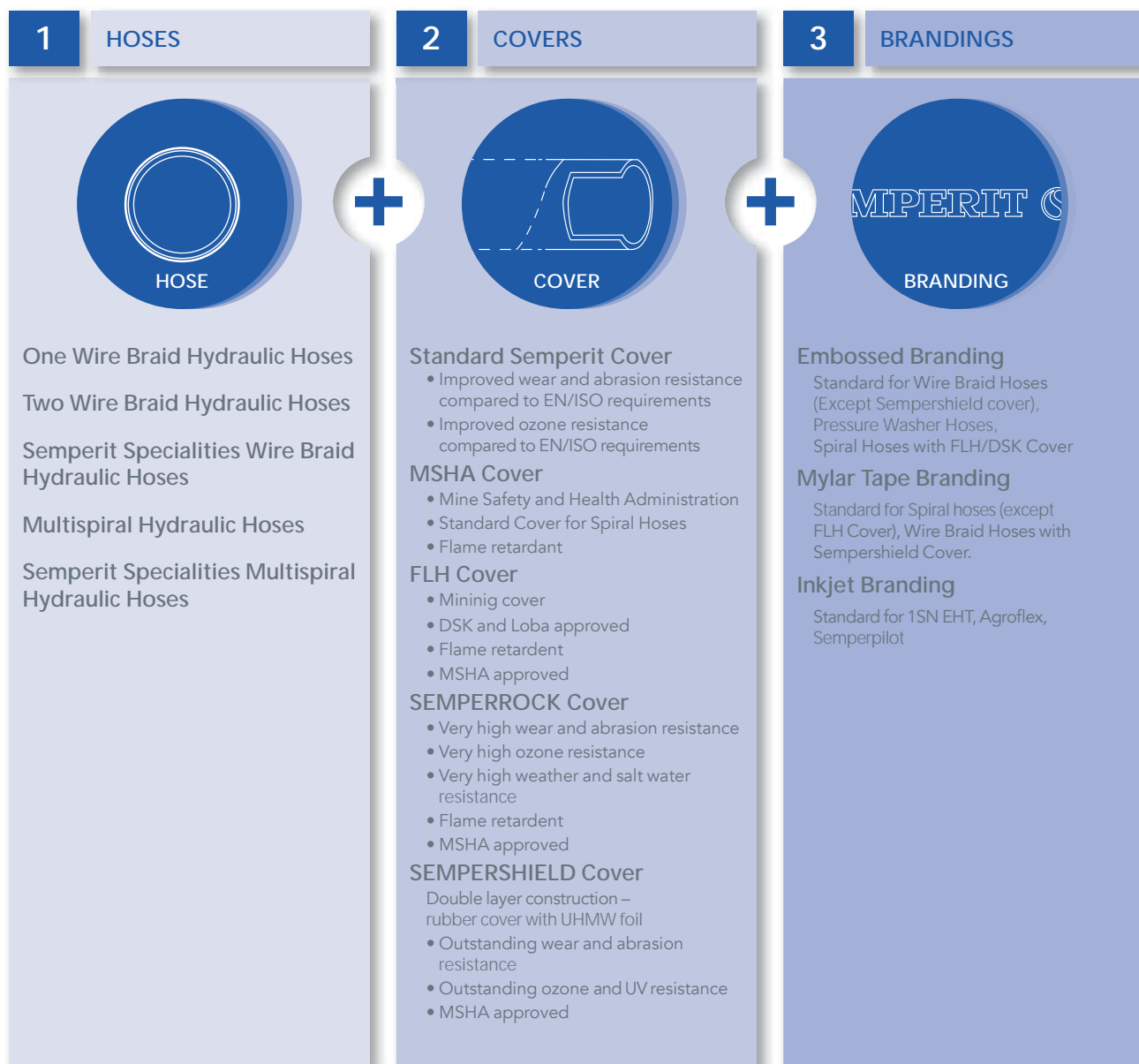
Caution: The hose's inner surface (inner liner) must be appropriate for the medium used in the application (oil, water, air), as otherwise the hose can be damaged or destroyed by the working medium or its contents and eventually fail, which can result in (partial or serious) material damage and personal injury.

For safety reasons, we invite your individual inquiries.

Semperjet: Overview of working pressure and bend radius on p. 17

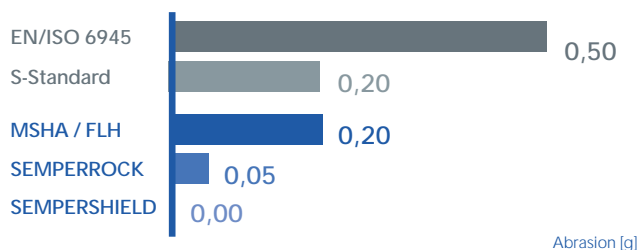
DN			DIN EN 853 1 SN / SAE 100 R 15 [p. 8]	DIN EN 857 1 SC [p. 8]	SAE 100 R 17 [p. 8]	DIN EN 853 2 SN / SAE 100 R 2S [p. 9]	DIN EN 857 2 SC [p. 9]	SAE 100 R 16-S [p. 9]	SEMPER PAC 1 SN-K [p. 10]	SEMPER PAC 2 SN-K [p. 10]	SEMPER SHIELD SSC [p. 10]	DIN EN 853 1 SN EHT [p. 11]	SEMPER PILOT [p. 11]	AGROFLEX [p. 11]	SUPER PAC SPC 2 [p. 12]	SUPER PAC SPC 3 [p. 12]	DIN EN 856 4 SP [p. 13]	DIN EN 856 4 SH [p. 13]	DIN EN 856 / SAE 100 R 12 [p. 13]	DIN EN 856 / SAE 100 R 13 [p. 14]	SAE 100 R 15 [p. 14]	FLEXLINE 4000 [p. 15]	4 SH PREMIUM [p. 15]	R 15 PREMIUM [p. 15]
Working pressure [wp] in bar																								
mm	inch	dash	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]	[wp]
6	1/4	-4	225	225	210	400	400	400	290	450	400	225	125	210										
8	5/16	-5	215	215	210	350	350	350	250	420	375	215	125	210										
10	3/8	-6	180	180	210	330	330	330	230	385	350	180	125	210		500	445		280			280		
12	1/2	-8	160	160	210	275	275	275	200	345	300	160	125	210	380	470	425		280			280		
16	5/8	-10	130	130	210	250	250	250	150	290	275	130			350	410	350		280			280		
19	3/4	-12	105	105	210	215	215	215	125	280	235	105				375	350	420	280	350	420	280	430	425
25	1	-16	88	88	210	165	165	165	110	200	185	88			230	310	320	380	280	350	420	280	400	425
31	1-1/4	-20	63			125			100	175		63					210	350	210	350	420		360	
38	1-1/2	-24	50			90						50					185	290	175	350	420			
51	2	-32	40			80						40					165	250	175	350				
Bend radius [br] in mm																								
mm	inch	dash	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]
6	1/4	-4	100	75	50	100	75	50	40	45	75	100	30	45										
8	5/16	-5	115	85	55	115	85	55	55	60	85	115	40	50										
10	3/8	-6	125	90	65	125	90	65	65	70	90	125	50	60		120	180		125			65		
12	1/2	-8	180	130	90	180	130	90	80	90	130	180	60	85	130	160	230		180			90		
16	5/8	-10	200	150	100	200	170	100	105	130	170	200			180	210	250		200			100		
19	3/4	-12	240	180	120	240	200	120	120	160	200	240				260	300	280	240	240	265	120	210	210
25	1	-16	300	230	150	300	250	150	160	210	250	300			240	310	340	340	300	300	330	155	220	220
31	1-1/4	-20	420			420			300	300		420					460	460	420	420	445		240	
38	1-1/2	-24	500			500						500					560	560	500	500	530			
51	2	-32	630			630						630					660	700	630	630				

MODULAR SYSTEM FOR HYDRAULIC HOSES

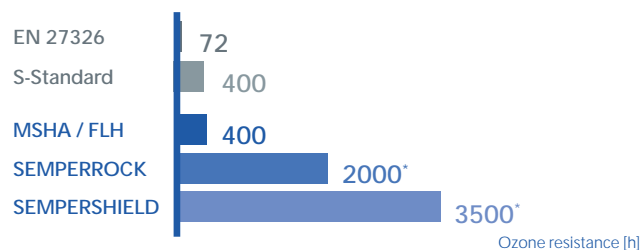


Please contact our sales department to discuss details.

ABRASION VALUES ACC. TO EN ISO 6945

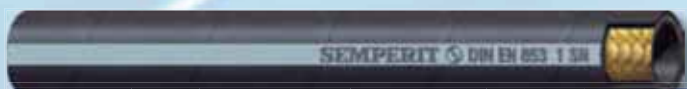


OZONE RESISTANCE ACC. TO EN 27326



* Extrapolated Values

ONE WIRE BRAID HYDRAULIC HOSES



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	10,9	13,0	225	3265	450	900	100	0,19
8	5/16	8,3	12,5	14,7	215	3120	430	860	115	0,22
10	3/8	9,9	14,8	16,8	180	2610	360	720	125	0,28
12	1/2	13,0	17,9	20,0	160	2320	320	640	180	0,36
16	5/8	16,4	21,0	23,2	130	1885	260	520	200	0,44
19	3/4	19,5	25,0	27,1	105	1525	210	420	240	0,56
25	1	26,0	32,9	35,1	88	1275	176	352	300	0,83
31	1-1/4	32,5	39,9	42,5	63	915	150	252	420	1,07
38	1-1/2	38,7	46,5	50,1	50	725	100	200	500	1,42
51	2	51,1	59,9	64,1	40	580	80	160	630	2,01

DIN EN 853 1 SN / SAE 100 R 1S

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

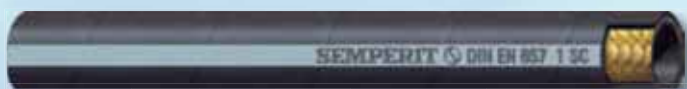
One braid of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	9,9	11,9	225	3265	450	900	75	0,16
8	5/16	8,3	11,7	13,7	215	3120	430	860	85	0,21
10	3/8	9,9	13,1	15,7	180	2610	360	720	90	0,26
12	1/2	13,0	16,6	19,5	160	2320	320	640	130	0,34
16	5/8	16,4	20,3	22,3	130	1885	260	520	150	0,39
19	3/4	19,5	24,0	26,0	105	1525	210	420	180	0,50
25	1	26,0	31,0	33,1	88	1275	176	352	230	0,74

DIN EN 857 1 SC

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

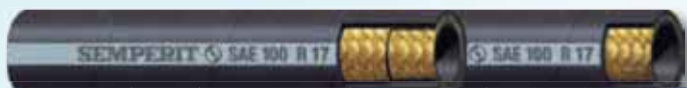
One braid of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	10,4	12,4	210	3000	420	840	50	0,16
8	5/16	8,3	12,0	14,1	210	3000	420	840	55	0,22
10	3/8	9,9	13,9	16,0	210	3000	420	840	65	0,27
12	1/2	13,0	17,6	19,5	210	3000	420	840	90	0,39
16	5/8	16,4	21,7	23,8	210	3000	420	840	100	0,61
19	3/4	19,5	25,5	27,6	210	3000	420	840	120	0,76
25	1	26,0	34,0	36,2	210	3000	420	840	150	1,27

SAE 100 R 17

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

One braid DN 06 – DN 12 and two braids DN 16 – DN 25 of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)

TWO WIRE BRAID HYDRAULIC HOSES



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
6 1/4	6,6	12,4	14,4	400 5800	800	1600	100	0,31
8 5/16	8,3	14,0	16,0	350 5075	700	1400	115	0,37
10 3/8	9,9	16,4	18,4	330 4785	660	1320	125	0,44
12 1/2	13,0	19,4	21,4	275 4000	550	1100	180	0,53
16 5/8	16,4	22,6	24,6	250 3625	500	1000	200	0,66
19 3/4	19,5	26,6	28,6	215 3120	430	850	240	0,84
25 1	26,0	34,5	37,1	165 2395	325	660	300	1,23
31 1-1/4	32,5	43,9	46,7	125 1815	250	500	420	1,77
38 1-1/2	38,7	51,1	54,5	90 1305	180	360	500	2,17
51 2	51,1	62,9	66,7	80 1160	160	320	630	2,79

DIN EN 853 2 SN / SAE 100 R2S

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
6 1/4	6,6	11,0	13,0	400 5800	800	1600	75	0,25
8 5/16	8,3	12,6	14,6	350 5075	700	1400	85	0,30
10 3/8	9,9	14,7	16,6	330 4785	660	1320	90	0,37
12 1/2	13,0	18,0	20,0	275 3990	550	1100	130	0,45
16 5/8	16,4	21,9	23,9	250 3625	500	1000	170	0,61
19 3/4	19,5	25,5	27,6	215 3120	430	860	200	0,76
25 1	26,0	32,9	35,6	165 2395	330	660	250	1,15

DIN EN 857 2 SC

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
6 1/4	6,6	11,7	13,7	400 5800	800	1600	50	0,25
8 5/16	8,3	13,0	15,0	350 5075	700	1400	55	0,27
10 3/8	9,9	15,1	17,0	330 4780	660	1320	65	0,36
12 1/2	13,0	18,3	20,5	275 3980	550	1100	90	0,46
16 5/8	16,4	21,9	23,9	250 3620	500	1000	100	0,63
19 3/4	19,5	25,5	27,7	215 3110	430	860	120	0,78
25 1	26,0	32,7	35,3	165 2390	330	660	150	1,16

SAE 100 R 16-S

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Two braids of high tensile steel wire

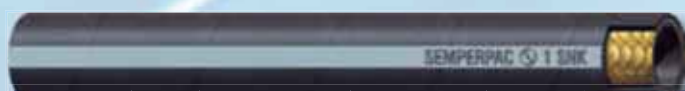
Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)

SPECIALITIES WIRE BRAID HYDRAULIC HOSES



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	10,1	12,0	290	4205	580	1160	40	0,17
8	5/16	8,3	11,4	13,6	250	3625	500	1000	55	0,21
10	3/8	9,9	13,6	15,9	230	3335	460	920	65	0,26
12	1/2	13,0	16,9	19,2	200	2900	400	800	80	0,34
16	5/8	16,4	20,3	22,3	150	2175	300	600	105	0,39
19	3/4	19,5	23,9	26,1	125	1815	250	500	120	0,50
25	1	26,0	31	33,1	110	1595	220	440	160	0,74
31	1-1/4	32,5	40,2	43,7	100	1450	200	400	300	1,28

Impuls tested up to 700.000 cycles!

SEMPERPAC 1 SN-K

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

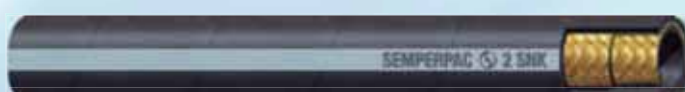
One braid of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	11,4	13,4	450	6525	900	1800	45	0,27
8	5/16	8,3	13,0	15,0	420	6090	840	1680	60	0,31
10	3/8	9,9	14,9	17,0	385	5585	770	1540	70	0,39
12	1/2	13,0	18,7	20,7	345	5000	690	1380	90	0,52
16	5/8	16,4	21,6	23,6	290	4205	580	1160	130	0,61
19	3/4	19,5	25,7	27,7	280	4060	560	1120	160	0,79
25	1	26,0	32,9	35,6	200	2900	400	800	210	1,15
31	1-1/4	32,5	40,5	43,5	175	2540	350	700	300	1,57

Impuls tested up to one million cycles! (DN31 to 200.000 cycles)

SEMPERPAC 2 SN-K

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

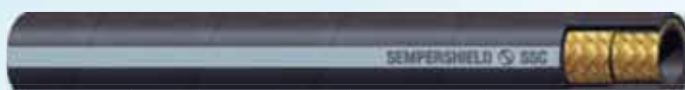
Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	11,0	13,0	400	5800	800	1600	75	0,27
8	5/16	8,3	12,6	14,6	375	5440	750	1500	85	0,31
10	3/8	9,9	14,7	17,1	350	5000	700	1400	90	0,39
12	1/2	13,0	18,0	20,0	300	4350	600	1200	130	0,48
16	5/8	16,4	21,9	24,0	275	4000	550	1100	170	0,64
19	3/4	19,5	25,6	27,5	235	3400	470	940	200	0,79
25	1	26,0	32,9	35,8	185	2680	370	740	250	1,22

SEMBERSHIELD SSC

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Two braids of high tensile steel wire

Cover:

Double layer construction – rubber cover with UHMW foil – MSHA approved. Outstanding abrasion and ozone resistance

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)

SPECIALITIES WIRE BRAID HYDRAULIC HOSES



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
6 1/4	6,6	11,1	13,5	225 3265	450	900	100	0,23
8 5/16	8,3	12,7	15,1	215 3120	430	860	115	0,27
10 3/8	9,9	15,1	17,5	180 2610	360	720	125	0,36
12 1/2	13,0	18,3	20,6	160 2320	320	640	180	0,44
16 5/8	16,4	21,4	23,5	130 1885	260	520	200	0,50
19 3/4	19,5	25,4	27,8	105 1525	210	420	240	0,66
25 1	26,0	33,3	35,6	88 1275	176	352	300	0,93
31 1-1/4	32,5	40,3	42,2	63 915	150	250	420	1,14
38 1-1/2	38,7	47,3	51,3	50 725	100	200	500	1,80
51 2	51,1	60,5	63,3	40 580	80	160	630	2,01

DIN EN 853 1 SN EHT

Tube:

Synthetic rubber, resistant against hot oil, hydraulic fluids, mineral and synthetic oils, glycols, polyglycols and aqueous oil emulsions (up to 100°C)

Reinforcement:

One braid of high tensile steel wire

Cover:

Heat, abrasion and ozone resistant synthetic rubber, MSHA approved

Temperature range (medium):

-40°C to 135°C (up to 150°C peak temperatures)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
6 1/4	6,6	9,9	11,5	125 1800	250	500	30	0,14
8 5/16	8,3	11,6	13,7	125 1800	250	500	40	0,22
10 3/8	9,9	12,9	14,4	125 1800	250	500	50	0,17
12 1/2	13,0	16,3	19,4	125 1800	250	500	60	0,34

SEMPERPILOT

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

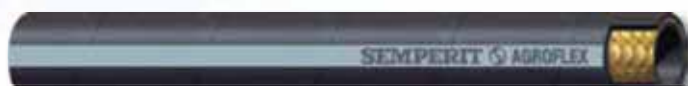
One braid of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: MSHA cover available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
6 1/4	6,6	9,9	12,0	210 3000	420	840	45	0,17
8 5/16	8,3	11,7	13,8	210 3000	420	840	50	0,22
10 3/8	9,9	13,2	15,8	210 3000	420	840	60	0,27
12 1/2	13,0	17,1	19,3	210 3000	420	840	85	0,39

AGROFLEX



Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

One braid of high tensile steel wire

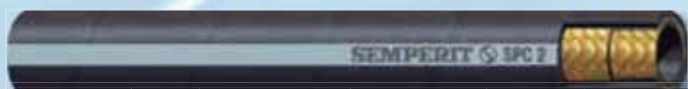
Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)

SPECIALITIES WIRE BRAID HYDRAULIC HOSES



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
12 1/2	13,0	19,4	21,4	380 5515	760	1520	130	0,59
16 5/8	16,4	22,4	24,7	350 5080	700	1400	180	0,72
25 1	26,0	34,0	35,8	230 3330	460	920	240	1,27

Impuls tested up to 400.000 cycles!

SUPERPAC SPC 2

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

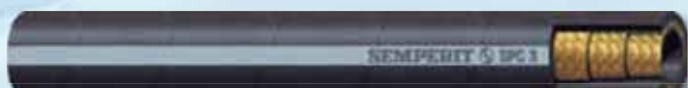
Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
10 3/8	9,9	16,8	20,9	500 7250	1000	2000	120	0,66
12 1/2	13,0	20,6	24,1	470 6820	940	1880	160	0,89
16 5/8	16,4	24,0	27,8	410 5950	820	1640	210	1,10
19 3/4	19,5	28,1	31,1	375 5440	750	1500	260	1,33
25 1	26,0	36,2	38,8	310 4500	620	1240	310	1,87

Impuls tested up to 400.000 cycles!

SUPERPAC SPC 3

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

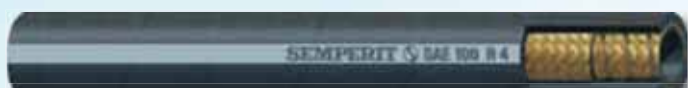
Three braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
19 3/4	19,0	-	29,0	21 3000	-	84	95	0,60
25 1	25,4	-	35,4	17 250	-	68	125	0,70
31 1-1/4	31,8	-	41,8	14 200	-	56	160	0,90
38 1-1/2	38,1	-	49,0	10 140	-	40	200	1,10
51 2	51,0	-	62,0	7 100	-	28	255	1,35
63 2-1/2	63,5	-	76,5	5 70	-	20	315	1,90
76 3	76,2	-	89,2	5 70	-	20	380	2,50
89 3-1/2	89,0	-	102,0	5 70	-	20	400	2,80
102 4	102,0	-	116,0	5 70	-	20	510	3,80

SAE 100 R 4

Tube:

NBR, black, smooth, antistatic

Reinforcement:

Textile wrapped, zinc plated double steel wire helix (ID > 2 1/2" zinc plated steel wire helix)

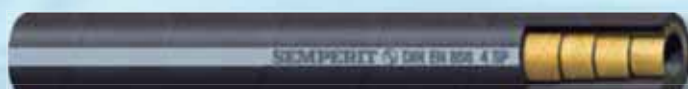
Cover:

SBR-EPDM, black, abrasion resistant, ozone resistant, cloth impression

Temperature range (medium):

-40°C to 100°C

MULTISPIRAL HYDRAULIC HOSES



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
10 3/8	9,9	17,4	21,1	445 6455	890	1780	180	0,70
12 1/2	13,0	20,6	24,2	425 6165	850	1700	230	0,85
16 5/8	16,4	24,2	27,9	350 5075	780	1560	250	1,04
19 3/4	19,5	27,9	32,0	350 5075	770	1540	300	1,32
25 1	26,0	35,1	38,9	320 4640	640	1280	340	2,06
31 1-1/4	32,5	45,9	50,5	210 3045	480	960	460	3,14
38 1-1/2	38,7	52,1	56,8	185 2685	420	840	560	3,61
51 2	51,1	65,4	70,2	165 2395	330	660	660	5,13

DIN EN 856 4 SP

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

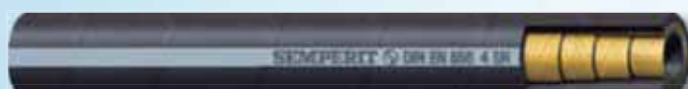
Four high tensile steel wire spiral layers

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
19 3/4	19,5	28,3	31,9	420 6090	840	1680	280	1,43
25 1	26,0	35,4	38,7	380 5510	760	1520	340	2,20
31 1-1/4	32,5	42,3	45,2	350 5075	700	1380	460	2,58
38 1-1/2	38,7	49,2	53,4	290 4200	580	1160	560	3,30
51 2	51,1	63,2	67,3	250 3625	500	1000	700	4,94

DIN EN 856 4 SH

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

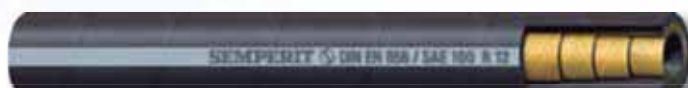
Four high tensile steel wire spiral layers

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 100°C (max 120°C intermittent)



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
10 3/8	9,9	17,4	20,4	280 4060	560	1120	125	0,66
12 1/2	13,0	20,6	24,1	280 4060	560	1120	180	0,83
16 5/8	16,4	24,2	27,8	280 4060	560	1120	200	1,04
19 3/4	19,5	27,9	31,0	280 4060	560	1120	240	1,25
25 1	26,0	35,1	38,4	280 4060	560	1120	300	1,86
31 1-1/4	32,5	44,1	46,6	210 3045	420	840	420	2,48
38 1-1/2	38,7	49,9	53,3	175 2540	350	700	500	2,83
51 2	51,1	63,7	66,6	175 2540	350	700	630	4,47

DIN EN 856 / SAE 100 R 12

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Four high tensile steel wire spiral layers

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 121°C

MULTISPIRAL HYDRAULIC HOSES



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	bar	psi	bar	mm	kg/m
19	3/4	19,5	28,6	350	5075	700	240	1,57
25	1	26,0	35,5	350	5075	700	300	1,92
31	1-1/4	32,2	46,8	350	5075	700	420	3,60
38	1-1/2	38,5	54,3	350	5075	700	500	4,80
51	2	51,2	68,1	350	5075	700	630	6,60

DIN EN 856 / SAE 100 R 13

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Four spiral layers DN 19 – DN 25 and six spiral layers DN 32 – DN 51 of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 121°C



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	bar	psi	bar	mm	kg/m
19	3/4	19,5	28,3	420	6090	840	265	1,43
25	1	26,0	35,4	420	6090	840	330	2,16
31	1-1/4	32,2	48,0	420	6090	840	445	2,96
38	1-1/2	38,5	56,3	420	6090	840	530	5,10

SAE 100 R 15

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

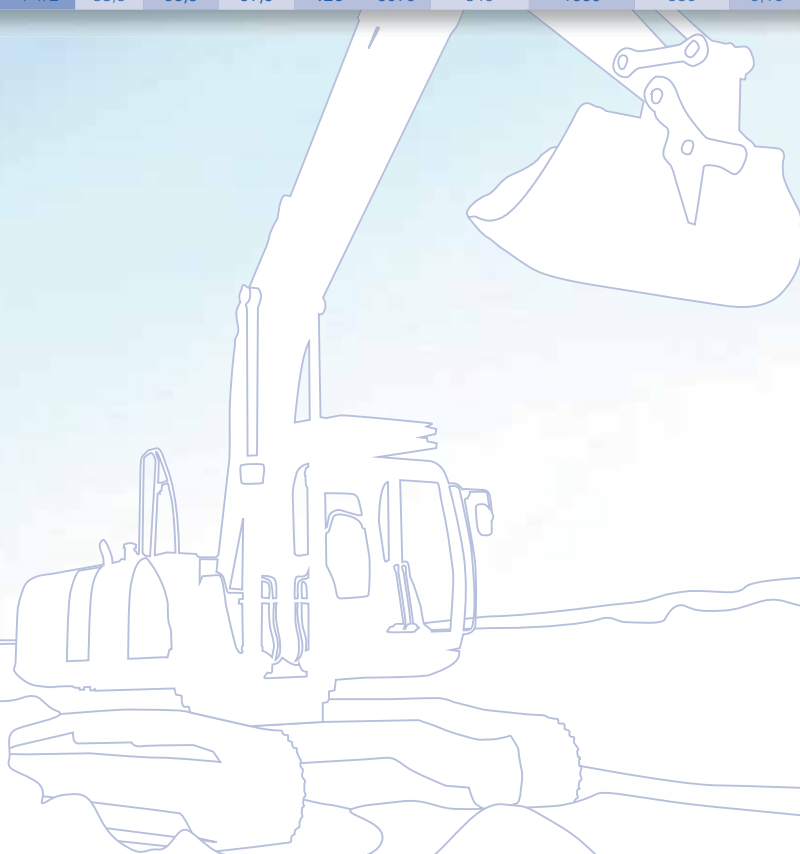
Four spiral layers DN 19 – DN 25 and six spiral layers DN 32 – DN 38 of high tensile steel wire

Cover:

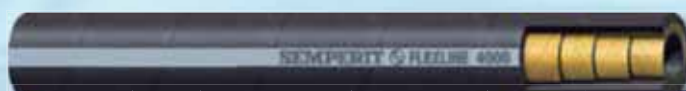
Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 121°C



SPECIALITIES MULTISPIRAL HYDRAULIC HOSES



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
10 3/8	9,9	17,4	20,4	280 4060	560	1120	65	0,66
12 1/2	13,0	20,6	24,1	280 4060	560	1120	90	0,83
16 5/8	16,4	24,2	27,8	280 4060	560	1120	100	1,04
19 3/4	19,5	27,9	31,0	280 4060	560	1120	120	1,25
25 1	26,0	35,1	38,4	280 4060	560	1120	155	1,86

Impuls tested up to one million cycles!

FLEXLINE 4000

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Four high tensile steel wire spiral layers

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 121°C



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
19 3/4	19,5	28,3	31,9	430 6235	860	1720	210	1,43
25 1	26,0	35,4	38,7	400 5800	800	1600	220	2,08
31 1-1/4	32,5	42,3	45,2	360 5220	720	1440	240	2,58

Impuls tested up to one million cycles!

4 SH PREMIUM

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Four high tensile steel wire spiral layers

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 121°C



Nominal Ø	Inside Ø	Braid Ø	Outside Ø	Working pressure	Test pressure	Burst pressure	Bend radius	Weight
mm inch	mm	mm	mm	bar psi	bar	bar	mm	kg/m
19 3/4	19,5	28,3	31,9	425 6160	850	1700	210	1,43
25 1	26,0	35,4	38,7	425 6160	850	1700	220	2,16

Impuls tested up to one million cycles!

R 15 PREMIUM

Tube:

Synthetic rubber, resistant against hydraulic fluids

Reinforcement:

Four high tensile steel wire spiral layers

Cover:

Abrasion and ozone resistant synthetic rubber – MSHA approved. Note: various covers available

Temperature range (medium):

-40°C to 121°C

SEMPERIT HOSES FOR PRESSURE WASHER APPLICATIONS

Semperit is one of the largest producers of pressure washer hoses worldwide, and is specialized in the production and marketing of these products. Leading brands rely on Semperit hoses in their equipment.

MODULAR SYSTEM FOR PRESSURE WASHER HOSES



Please contact our sales department to discuss details.

			Bend radius [br] in mm								
mm	inch	dash	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]	[br]
6	1/4	-4	100	100	35	35	75	75	35	35	75
8	5/16	-5	115	115		65	85	60	65	65	85
10	3/8	-6	125	125		75	90	70	75	75	90
12	1/2	-8	180	180		100	130	90	100	100	130
16	5/8	-10	200								

SEMPERJET



Nominal Ø		Inside Ø mm	Braid Ø mm	Outside Ø mm	Working pressure		Test pressure bar	Burst pressure bar	Bend radius mm	Weight kg/m
mm	inch				bar	psi				
6	1/4	6,6	10,9	13	250	3625	450	900	100	0,19
8	5/16	8,3	12,5	14,7	220	3190	430	860	115	0,22
10	3/8	9,9	14,8	16,8	220	3190	360	720	125	0,28
12	1/2	13,0	17,9	20	220	3190	330	640	180	0,36
16	5/8	16,4	21,0	23,2	130	1885	260	520	200	0,42

SEMPERJET 1 SN

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

One braid of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: Black, blue and grey cover available

Temperature range (medium):

-10°C to 155°C



Nominal Ø		Inside Ø mm	Braid Ø mm	Outside Ø mm	Working pressure		Test pressure bar	Burst pressure bar	Bend radius mm	Weight kg/m
mm	inch				bar	psi				
6	1/4	6,6	12,4	13,4	400	5800	800	1600	100	0,19
8	5/16	8,3	14,0	16,0	400	5800	700	1400	115	0,22
10	3/8	9,9	16,4	18,4	400	5800	660	1320	125	0,28
12	1/2	13,0	19,4	21,4	400	5800	600	1100	180	0,36

SEMPERJET 2 SN

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

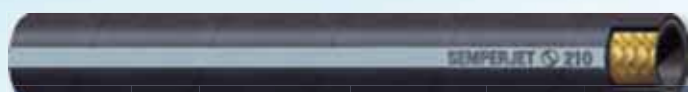
Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: Black, blue and grey cover available

Temperature range (medium):

-10°C to 155°C



Nominal Ø		Inside Ø mm	Braid Ø mm	Outside Ø mm	Working pressure		Test pressure bar	Burst pressure bar	Bend radius mm	Weight kg/m
mm	inch				bar	psi				
6	1/4	6,6	10,0	11,5	210	3045	420	840	35	0,14

SEMPERJET 210

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

One braid of high tensile steel wire

Cover:

Abrasion and weather resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C

SEMPERJET



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	10,0	11,8	250	3625	500	1000	35	0,16
8	5/16	8,3	11,7	13,7	250	3625	500	1000	65	0,21
10	3/8	9,9	13,5	16,5	250	3625	475	950	75	0,29
12	1/2	13,0	17,1	19,6	250	3625	420	840	100	0,39

SEMPERJET 250

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

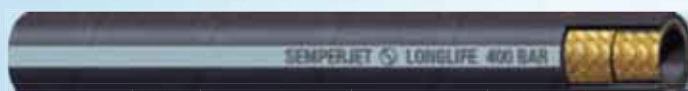
One braid of high tensile steel wire

Cover:

Abrasion and weather resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	11,0	13,0	400	5800	800	1600	75	0,25
8	5/16	8,3	12,4	14,6	400	5800	700	1400	85	0,30
10	3/8	9,9	14,7	16,6	400	5800	660	1320	90	0,37
12	1/2	13,0	18,0	20,0	400	5800	550	1100	130	0,46

SEMPERJET LONGLIFE 400

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: Black, blue and grey cover available

Temperature range (medium):

-10°C to 155°C



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	11,5	13,1	500	7250	900	1500	75	0,28
8	5/16	8,3	12,8	14,5	500	7250	800	1600	60	0,34
10	3/8	9,9	15,0	17,1	500	7250	770	1540	70	0,44
12	1/2	13,0	18,7	20,7	500	7250	690	1380	90	0,54

SEMPERJET LONGLIFE 500

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

Two braids of high tensile steel wire

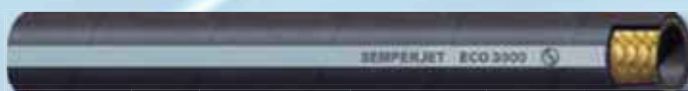
Cover:

Abrasion and weather resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C

SEMPERJET ECO



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	10,4	11,7	210	3000	315	630	35	0,18
8	5/16	8,3	11,9	13,6	210	3000	315	630	65	0,20
10	3/8	9,9	13,9	16,0	210	3000	315	630	75	0,26
12	1/2	13,0	17,6	19,6	210	3000	315	630	100	0,37

SEMPERJET ECO 3000

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

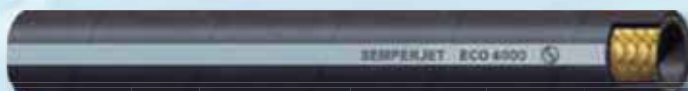
One braid of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	10,4	11,8	276	4000	414	828	35	0,18
8	5/16	8,3	11,9	13,7	276	4000	414	828	65	0,20
10	3/8	9,9	13,9	16,1	276	4000	414	828	75	0,26
12	1/2	13,0	17,6	19,6	276	4000	414	828	100	0,37

SEMPERJET ECO 4000

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

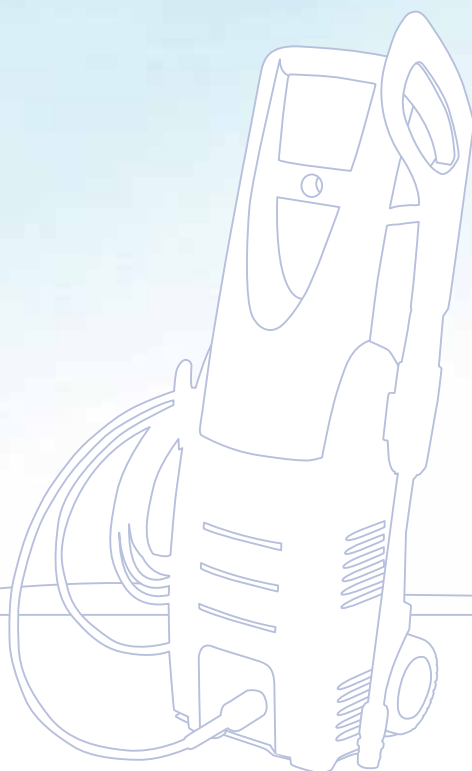
One braid of high tensile steel wire

Cover:

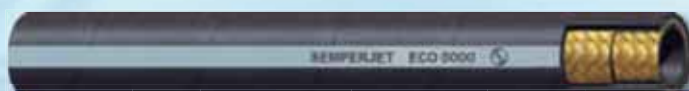
Abrasion and ozone resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C



SEMPERJET ECO



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	11,7	13,6	350	5000	525	1050	75	0,30
8	5/16	8,3	13,1	15,3	350	5000	525	1050	85	0,34
10	3/8	9,9	15,2	17,4	350	5000	525	1050	90	0,41
12	1/2	13,0	18,8	21,0	350	5000	525	1050	130	0,59

SEMPERJET ECO 5000

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

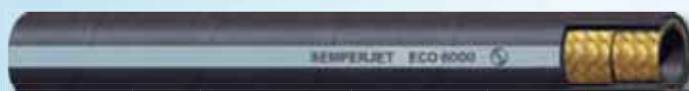
Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C



Nominal Ø		Inside Ø	Braid Ø	Outside Ø	Working pressure		Test pressure	Burst pressure	Bend radius	Weight
mm	inch	mm	mm	mm	bar	psi	bar	bar	mm	kg/m
6	1/4	6,6	11,7	13,6	414	6000	621	1242	75	0,30
8	5/16	8,3	13,1	15,3	414	6000	621	1242	85	0,34
10	3/8	9,9	15,2	17,4	414	6000	621	1242	90	0,41

SEMPERJET ECO 6000

Tube:

Synthetic rubber, resistant against cold and hot water with usual cleaning agents

Reinforcement:

Two braids of high tensile steel wire

Cover:

Abrasion and ozone resistant synthetic rubber. Note: black, blue or grey cover available

Temperature range (medium):

-10°C to 155°C

TYPE APPROVAL CERTIFICATES

Approval Types of Semperit Hoses:

LOBA	Landesoberbergamt NRW
DSK	Oberbergamt für das Saarland und Rheinland-Pfalz
GL	Germanischer Lloyd
BWB	Bundesamt f. Wehrtechnik u. Beschaffung
DNV	Det Norske Veritas
RINA	Registro Italiano Navale
BV	Bureau Veritas
MSHA	Mine Safety and Health Administration
TEST	Opiniujacej Atestujacej I Certyfikujacej Wroby TEST Sp.z. o.o.
OPAVA	Technical Laboratories OPAVA
GOST	Gossudarstwenny Standart
MakNII	Makejevscij Nauchno - Issledovatel'scij Institut
DIN 5510	Approvals for Railways (Deutsche Bahn)
MA	Mining Certificate China



SPECIFICATION OF HYDRAULIC HOSE LENGTH IN ONE SHIPMENT

If no specific hose lengths have been agreed on, the percentage of different lengths in any given delivery shall be as follows:

According to EN 853 – 857:

min. 80 % in lengths over 20 m
max. 20 % in lengths over 10 m to 20 m
max. 3 % in lengths over 1 m to 10 m
no length of hose may be less than 1 m
Tolerance of the specified coil length is $\pm 2\%$

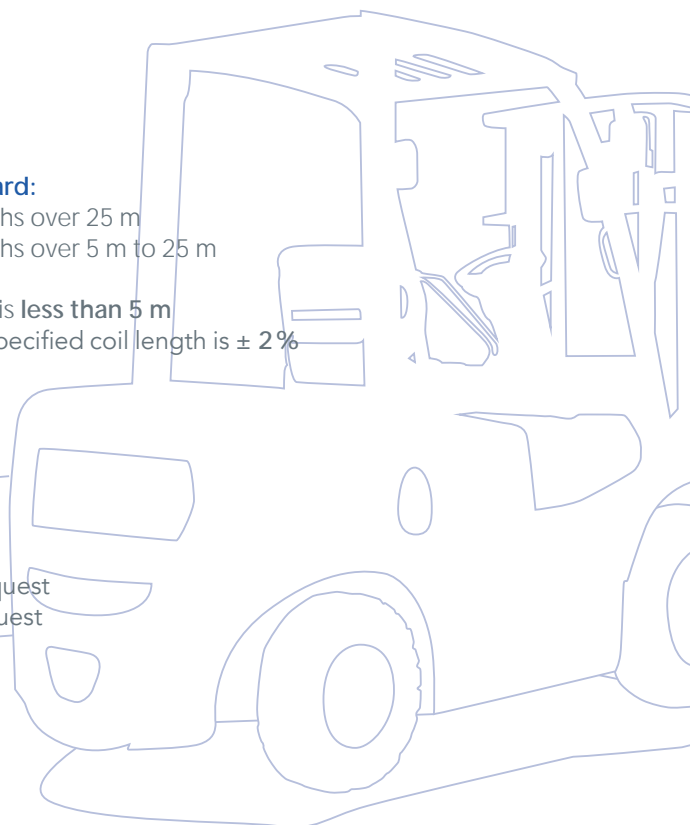


SEMPERIT standard:

min. 90 % in lengths over 25 m
max. 10 % in lengths over 5 m to 25 m
no length of hose is less than 5 m
Tolerance of the specified coil length is $\pm 2\%$

SPECIFICATION OF PRESSURE WASHER HOSE LENGTH IN ONE SHIPMENT

- Multiples of 10 m or according to specifications – prices on request
- Fixed lengths, cut and coiled, ready for crimping – prices on request



GENERAL INFORMATION ON THE USE OF OUR PRODUCTS

The choice of the correct type of hose is very important for proper and safe use in service.

Please check the suitability of the chosen product for the customer's specific applications, and instruct your customers accurately about the functional range of our products and their limitations.

However, the suitability of a chosen product for the customer's specific application can only be determined in individual cases and is dependent on the specific installation situation (especially the hose curvature), the combination with a coupling, and the compatibility of the medium with the inner surface of the hose (inner liner).

Please consult our home page www.semperflex.com for further information in detail. This brief overview does not replace specific advice in individual cases.

Please obtain specific advice in the event of any uncertainty!

The number of potential operating hours falls if the hose is used under unfavourable operating conditions. These include maximum operational pressure, maximum temperature, and minimum bending radius. When several of these factors coincide, the product deteriorates more rapidly and therefore must be replaced sooner.

Therefore please verify operating conditions regularly, and adapt your replacement cycle to them.

IMPORTANT NOTES

This catalogue has been carefully prepared to provide our customers with comprehensive information. The information contained within is the result of many years of testing and trials, or is based on the specifications of EN853, 856, 857 und SAE J 517.

The choice of the correct hose type is very important for proper and safe use in service. Please check the suitability of the chosen product for the customer's specific applications, and instruct your customers accurately about the functional range of our products and their limitations. The application, use, and processing of our products and products manufactured on the basis of our technical advice are beyond our control, and therefore entirely your own responsibility. Our advice does not release you from the obligation to check its validity and to test our products for their suitability in the intended processes and uses. All hoses must be regularly checked for operational safety. In the event of damage, in particular to the hose cover, hoses must be replaced for safety reasons. Operation under unfavourable operating conditions (maximum operational pressure, maximum temperature or minimum bending radius) may reduce service life significantly. Please adapt your replacement cycle accordingly! Our products are sold in accordance with our General Conditions of Sale and Delivery. The information contained herein at printing is current as of 03/2013, 1st edition. We continuously work to advance our products for our customers. Please keep yourself informed regularly about the most recent product specifications by contacting our specialised dealers or Semperit's application engineers.

We reserve the right to make amendments at any time.

IMPORTANT INFORMATION:

Incorrect product selection or improper installation of hoses can result in damage to or failure of the hose, (often serious) material damage, and personal injury. Particularly in applications with high operational pressures, non-compliance with specifications can result in a serious risk of injury! Therefore, in case of doubt, please seek specific advice!



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HYDRAULICS

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