



Sheeting & Matting

Sheeting & Matting

Industry & Wear Resistant

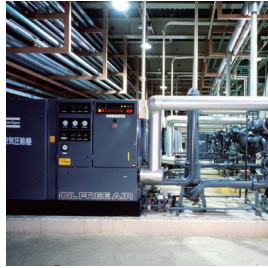
www.trelleborg.com/fluidhandling

TRELLEBORG GROUP LEADER IN POLYMER SOLUTIONS

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way.



Trelleborg Coated Systems



Trelleborg Industrial Solutions



Trelleborg Offshore & Construction



Trelleborg Sealing Solutions



Trelleborg Wheel Systems

TRELLEBORG FLUID HANDLING SOLUTIONS

Trelleborg Fluid Handling Solutions is part of the business area Trelleborg Industrial Solutions.

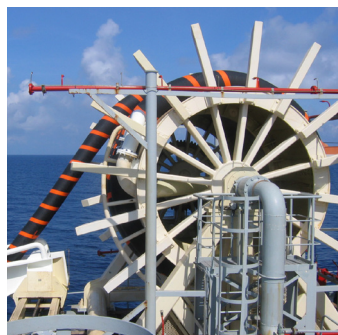
With over 1,000 employees and a head office located in Clermont-Ferrand in France, Trelleborg Fluid Handling Solutions is a leading developer, manufacturer and supplier of low and medium pressure industrial hoses, Oil & Gas hoses, rubber sheeting and matting and expansion joints based on advanced polymer technology.

We provide the optimum high performance solutions for every situation with production sites in France, Spain, Sweden and Turkey.

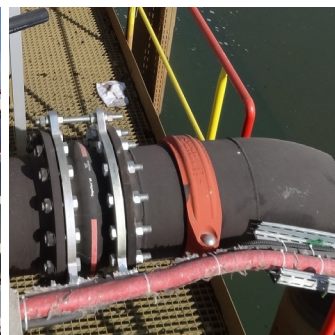
Trelleborg Fluid Handling Solutions offer a very large range of competitive products, solutions and services that meet your needs and requirements for all types of applications.



Industrial hoses



Oil & Gas hoses



Expansion joints



Rubber sheeting and matting

Seal, damp and protect

Trelleborg rubber sheeting and matting range is suitable for most areas of use. Main applications are sealing (gaskets), protection (machine and process), safety (electric insulation, fire/smoke) and flooring (industrial matting).

We invest heavily in R&D. Our sales staff, chemists and engineers work to find better solutions for customers through continuous development of new materials, composites, designs and production methods.

Certificates are available under request (food quality, drinking water, dielectric, fire and smoke resistance).

Our factory is certified ISO 9001, ISO 14001 and ISO 45001.

Trelleborg rubber sheeting and matting range is especially designed for:

Chemical (acids, bases, oils)

Energy (electrical insulation acc. EN-60243-2, IEC 61111, fire protection)

Mass transit (EN-45545-2 + A1:2016 regulation)

Food (FDA and (EC) 1935/2004 certificates)

Drinking water (several certificates as ACS, WRAS, BELGAQUA, AS/NZS, etc.)

Steel industry (high temperature)

Automotive (acids, bases, oils)

Construction & environment (fire/smoke matting, bearings)

Mining & quarries (skirting, dust sealing)
































































































Standard manufacturing dimensions and tolerances

Thickness (mm)	Thickness tolerance (mm)	Width (mm)	Length (m)	Thickness (mm)	
		Industrial		Wear resistant	
1	± 0.2	1400 ± 2 %	20 ± 2 %	1	
1.5	± 0.25		15 ± 2 %	1.5	
2	± 0.3		10 ± 2 %	10 ± 2 %	2
3					3
4	± 0.4				10 ± 2 %
5			5		
6			6		
8	± 0.5		10 ± 2 %	8	
10	± 0.7			10	
12	± 1.0			5 ± 2 %	12
15			15		
20			± 1.4		20
25	± 1.75		5 ± 2 %	25	
30/40	± 2.0			2.5 ± 2 %	30/40

Due to Production reasons, it is not always possible to supply the exact ordered quantities or the exact lengths. Consequently, the quantity delivered and invoiced can change by $\pm 10\%$ of the quantity requested or/and a maximum of 10% of the ordered rolls can be supplied in short lengths at the same price (minimum one roll). For further information check our General Conditions of Sale.

The technical data shown on this brochure is taken from our TDS at the date of printing, errors and omission excepted. In the event of disparity, the values on the TDS are available on our website (www.trelleborg.com/fluidhandling).

Industrial sheeting

			Color	Density (g/cm³)	Hardness (Shore A)	Tensile strength (MPa)	Elongation at break (%)	Working temperature (°C)	Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons		
EPDM														
<p>Excellent ageing properties (heat, ozone, weathering).</p> <p>Good resistance to acids, bases, solvents and steam.</p> <p>Remains flexible at low temperature.</p> <p>Not resistant to hydrocarbons and fat products.</p>	Standard level quality	EF51		1.30	65	5	200	-25	+120					
	Fire EN-45545-2 compliance	E527			1.45	70	7	400	-30	+100				
	White food quality	E569			1.27	60	8	350	-40	+115				
	Drinking water - WRAS certification	E645			1.15	70	12	400	-40	+120				
	Technical applications 50 Shore	E550			1.17	50	9	450	-40	+115				
	Technical applications 60 Shore	ES02			1.22	60	10	500	-40	+120				
	Technical applications 70 Shore	ES01			1.31	70	7	300	-40	+120				
	High temperature applications	ES03			1.24	70	10	300	-40	+150				
CR (Polychloroprene)														
<p>Good mechanical and physical properties, low compression set values and good bending.</p> <p>Very good resistance to weathering, ozone and UV.</p> <p>Good resistance to diluted acids, alifatic solvents, oils and petroleum based products.</p>	Standard level quality	CF49	 		1.40	65	6	250	-25	+90				
	Technical applications 40 Shore	C400			1.33	40	4	450	-30	+90				
	Technical applications 50 Shore	C500			1.35	50	4.5	400	-30	+100				
	Technical applications 60 Shore	CF03	 		1.40	60	7	250	-25	+100				
	Technical applications 70 Shore	CS40	 		1.45	70	6	300	-20	+100				
	High performance	CF14			1.30	60	10	250	-35	+120				
CSM														
Good chemical resistance against acids and bases.	Technical applications 60 Shore	H630		1.30	60	9	350	-35	+125					
IIR (Butyl)														
Very good resistance to acids, bases, and steam. Good resistance to animal or vegetable fats and oils. Weathering, ozone and UV resistant.	Technical applications 60 Shore	T620		1.27	60	8	400	-40	+130					
Consult the technical datasheet or consult us for any specific application or product in contact with Trelleborg sheeting.				 1 ply  2 plies  Very good  Good  Medium  Non suitable										

E645

Black EPDM sheeting for drinking water.

Approved by WRAS as suitable for contact with water for domestic purposes up to 23°C.

E527

High performance EPDM sheeting. Fire resistant with low and not toxic smoke emission. Halogen-free.

Classified as HL3 R22, R23 & R24 according to European EN-45545-2 + A1:2016 regulation.

**EPDM for
drinking water**



**Fire resistant
EPDM**



Industrial sheeting

NR SBR

NR: Natural rubber. Excellent mechanical and dynamic properties, abrasion resistance, resilience and elasticity. Flexible at low temperatures. High elongation and deformation capacity. Not resistant to oils and petroleum based products.

SBR: Alternative to natural rubber.

			Color	Density (g/cm ³)	Hardness (Shore A)	Tensile strength (MPa)	Elongation at break (%)	Working temperature (°C)	Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Basic quality	R608	1P 2P	●	1.50	65	4	200	-25 + 70	●	●	●	●
Standard level quality	RF48	1P 2P	●	1.35	65	4	200	-25 + 70	●	●	●	●
White standard level quality	R661		○	1.67	68	5	220	-25 + 70	●	●	●	●
White food quality natural rubber	R642	☞	○	1.40	65	10	600	-45 + 80	●	●	●	●
High performance natural rubber	R490		●	1.05	45	16	600	-40 + 85	●	●	●	●
High performance natural rubber	R499		●	1.00	43	25	650	-40 + 85	●	●	●	●

NBR

Excellent resistance to oils, fats, petroleum based products and organic solvents.

Low resistance to weathering, ozone and UV.

Standard level quality	BF50	1P 2P	●	1.35	65	5	300	-25 + 90	●	●	●	●
White food quality	B571	☞	○	1.44	65	10	500	-35 + 110	●	●	●	●
Blue food quality	B572	☞	●	1.44	65	10	500	-35 + 110	●	●	●	●
Technical applications 50 Shore	BS11		●	1.20	50	8	450	-30 + 110	●	●	●	●
Technical applications 60 Shore	BS33		●	1.28	60	10	350	-25 + 110	●	●	●	●
Technical applications 70 Shore	BS08		●	1.30	70	10	250	-30 + 100	●	●	●	●
For transformer oil	BF31	☛	●	1.30	70	13	300	-40 + 130	●	●	●	●

Viton™ (FKM)

Excellent chemical resistance.
Excellent resistance to very high temperatures.
Good mechanical and physical properties.

High technical applications	V733		●	1.85	70	7	220	-20 + 250	●	●	●	●
Green food quality	V735	☞	●	1.83	78	10	200	-20 + 250	●	●	●	●

Silicone

Excellent working temperature range and ageing properties.

Straightforward handling (no talc).

Red food quality	CORALSIL	SR	☞	●	1.20	60	10	500	-60 + 230	●	●	●	●
Transparent food quality	DIAMONDSIL	ST	☞	○	1.20	60	10	500	-60 + 230	●	●	●	●
Blue food quality	SAPPHIRESIL	SB	☞	●	1.20	60	10	500	-60 + 230	●	●	●	●
Metal Detectable	MAGNETSIL	SMD	☞	●	1.30	60	8	300	-60 + 230	●	●	●	●

Consult the technical datasheet or consult us for any specific application or product in contact with Trelleborg sheeting.

1P 1 ply 2P 2 plies ● Very good ● Good ● Medium ● Non suitable

MAGNETSIL (SMD)

Food grade silicone containing an additive visible to metal detector equipment or X-ray.

Any loose fragment or eroded particle from the joints can be detected easily by the scanners fitted along the processing line.

FOOD GRADES

Trelleborg Fluid Handling Solutions offers a variety of food grade rubber sheeting meeting European (EC) n° 1935/2004 and 2023/2006 regulations. The material is also in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use (American legislation).

Check the Food Grade symbol on this brochure to discover our food grade qualities. Further information on our Technical Data Sheets.

**Metal detectable
Silicone**































**Meeting (EC) 1935/2004
& FDA Classification**



Wear resistant sheeting

Sand and gravel quarries, steel industry, foundries, metal industry, aggregate and cement industries, concrete plants, sawmills, food and pharmaceutical industry, agriculture, sewer cleaning, industrial waste and road maintenance.



High wear sheeting			Rubber compound	Color	Option (bonding layer)	Density (g/cm³)	Hardness (Shore A)	Tensile strength (MPa)	Elongation at break (%)	Abrasion (mm³)	Working temperature (°C)		
	Fine grain size material (dry or wet conditions)	REDFINE +	NR R397			0.95	35	25	700	60	- 40	+ 80	
	Round grain material	BLACKROCK +	NR R650			1.12	60	20	500	80	- 50	+ 85	
	Crushed material	ARMURITE	NR RF20			1.12	65	25	450	100	- 40	+ 70	
Medium wear sheeting													
	Fine grain size material (dry or wet conditions)	REDFINE/YELLOWFINE	NR R492/NR R491				1.05	45	16	600	80	- 40	+ 85
		BLACKFINE	NR R353				1.00	40	20	650	80	- 40	+ 70
		GREYFINE	NR R488				1.05	40	16	600	80	- 40	+ 85
		WHITEFINE 	NR R320				1.00	40	20	600	80	- 40	+ 85
	Round grain material	BLACKROCK	NR R698			1.14	60	16	450	120	- 40	+ 85	
Special wear sheeting													
	Fire resistant	BLACKFIRE	CR C738				1.47	70	10	250	200	- 30	+ 120
	Dust sealing	BLACKDUST	NR R431				1.03	45	16	600	90	- 50	+ 85
	Skirting	BLACKSKIRT	NR R439				1.18	50	8.5	400	125	- 40	+ 70
		GREENSKIRT	NR R570				1.20	55	13	450	170	- 40	+ 80
		Scrapers	SANDWICH	NR R698/R492/R698				1.15	60/45/60	15	400	130	- 40

REDFINE+

Areas of activity: sand and gravel quarries, aggregate and cement industries, concrete plants.

Excellent resistance to fine grain size products projection and fretting wear: sand, shot blasting, fine particles or abrasive dust.

High wear sheeting
Fine grain size material

BLACKROCK+

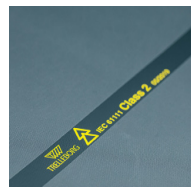
Areas of activity: sand and gravel quarries, glassssworks, construction and public works, civil engineering, building materials or transport.







































Linings to protect equipment, especially at loading and unloading points, against very abrasive products.

High wear sheeting
Round grain size material

Matting

Vehicles step treads, workbenches, shelves, racks covers, walls, columns, staircases, step stools, car trunks, vessels corridors, halls, corridors, ramps, stairs, elevators in industrial premises, flooring and matting for industrial site (aisles, warehouses, locker rooms).



Standard matting				Color	Thickness (mm)	Width (mm)	Length (m)
CIRCULAR		Circular studs (MC 2K1)		3	1000/1200	10	
		Fine triangular ribbed (MT)		3	1000/1200	10	
GROOVED		Rectangular ribbed (MR)		2.5	1500	15	
		Wide ribbed (MG)		5.8	1000/1200	10	
CHECKER		Checker (MK)		3	1400	10	
Technical matting (other colors under request)							
CIRCULAR +		Circular studs (MC 2K1)		3	1000/1200	10	
		Circular studs (MC 7A)		4.5	1000	10	
GROOVED +		Wide ribbed M39 (MG)		5	1400	10	
CHECKER +		Checker (MK)		3/5	1400	10	
OILMAT Oil and hydrocarbon resistant			Circular studs (MC 2K1)		3	1000/1200	10
			Circular studs (MC 7A)		4.5	1000	10
			Checker (MK)		3	1400	10
FIREMAT Fire resistant			Circular studs (MC 2K1)		3	1000/1200	10
ELEC Electric insulation EN-60243-2			Fine triangular ribbed (MT)		3/4.5	1000/1200	10
			Wide ribbed M39 (MG)		5	1200	10
			Checker (MK)		3	1400	10
ELECMAT + IEC 61111			Fabric impression		3.2/5	1000/1200	0.6/1/5/10

ELECMAT+

Insulating matting in compliance with IEC 61111 to be used as a floor covering for the electrical protection of workers on electrical installations.

Both sides fabric impression finish.

Electrical Insulation



ELECMAT

Insulating matting branded 30KV or 50KV following IEC 60243-1.

Fine or wide grooved or checkered pattern.

Electrical Insulation



FIREMAT

Fire resistant and low, translucent, and non toxic smoke emission. Classified Bfls1, following EN 13501-1.

Circular studs.

Fire resistant matting 



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WWW.TRELLEBORG.COM