

Garlock ePTFE Multi Sealant Tape

Style Multi-ST – Multi-directionally expanded sealant tape

Garlock Style Multi-ST, is a multi – directionally expanded PTFE sealant tape for metallic equipment and/or large flanges. As a form-in-place gasket on a spool it can be installed quickly, reducing expensive downtime. The multi-directionally orientated fiber structure offers great creep resistance and sealability even under fluctuating temperatures and pressures.



Typical Applications

» Heat exchangers
» Steel reactors
» Big pressure vessels
» Air coolers
» Suction filter
» Strainers
» Columns

Standards and Certifications

» EC 1935/2004 and EC 10/2011
» BAM tested for contact with oxygen
» TA-Luft incl. blow-out proof certificate
» FDA 21 CFR 177.1550
» ADI – free (TSE, BSE)
» Phthalate and softener free

Technical Data

» Temperatures - 240 to +270 °C short-term to +315 °C
» Pressure Vacuum and pressure up to 200 bar (3000 psi) depending on terms of usage
» Chemical resistance To all media pH 0-14 except molten alkali metals and elemental fluorine
» Shelf life ePTFE is showing no effects of aging and can be stored indefinitely. If purchased with adhesive backing, usage within two years is recommended, to ensure optimal adhesive function.

Available Sizes

Width mm	Thickness mm	Length of the sealant tape m					
		-	10	15	25	50	
10	3	-	10	15	25	50	
15	3	-	10	15	25	-	
20	3	-	10	15	25	50	
25	3	-	10	15	25	50	
30	3	-	10	15	25	50	
10	6	5	10	15	25	-	
15	6	5	10	15	25	-	
20	6	5	10	15	25	-	
25	6	5	10	15	25	-	
30	6	5	10	15	25	-	

Key Attributes

» Simple and fast installation – even for huge flanges only one person is needed for mounting
» Chemical and temperature resistant
» High creep resistance especially for applications with temperature cycles
» Cost effective
» Reduces large diameter gasket inventories

Full series of DIN EN 13555 data available, extract as follows:

Q min (0,01)	28 Mpa
Q _S min (0,01)	< 10 Mpa
P _{QR} (30Mpa RT)	0,94
P _{QR} (30Mpa 150°C)	0,67

Please note: When approaching maximum pressure or temperature, or 50% of maximum P_{xT}, consult Garlock Engineering.

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Installation Instructions

Size selection

The sealant tape width should cover at least 1/3 to 1/2 of the available sealing surface.

For tongue and groove flanges, make sure to cover the entire width of the groove with sealant tape.

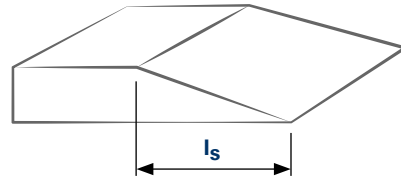
For large steel flanges select a 3 mm thick sealant tape. In case of irregularities larger than 1 mm the thickness should be 6 mm.

Installation

Clean the sealing surface, remove old sealing remains, and check for damage.

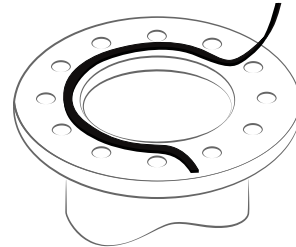
When applying the sealant tape, progressively remove the adhesive protective tape. Make sure the adhesive does not become dirty or damaged, this can influence the positioning and sealability of the tape.

The end of the sealant tape is cut using the skive cut technique:

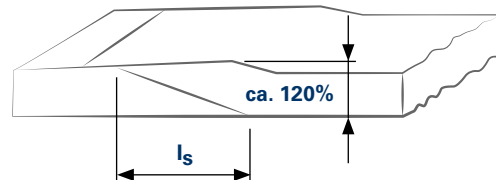


Thickness (mm)	3	6
l_s (mm)	15 - 25	25 - 35

The beginning of the tape is placed near a bolt hole, the tape is then laid round on the middle of the sealing surface.



The other end of the sealing tape is placed over the skived end and any excess material is cut off at an angle, making sure the total thickness is approximately 120 % of the original sealant tape thickness.



Note:
Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury. Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing. While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. Specifications subject to change without notice. This edition cancels all previous issues. Subject to change without notice GARLOCK is a registered trademark for packings, seals, gaskets, and other products of Garlock.
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