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POLY-TEMP® PTFE JOINT SEALANT

INCLUDING GRAINGER SKU NUMBERS

PTFE JOINT SEALANT



PTFE JOINT SEALANT is a 100% PTFE/UHF* gasket material. It comes in a soft, pliable ribbon with a self-adhesive tape.

PTFE JOINT SEALANT is a tough, flexible and economical universal gasket that replaces cut gaskets in a variety of regular and severe service applications.

PTFE JOINT SEALANT will not deteriorate with age. It is unaffected by common chemicals, will withstand pressures up to 3,000 psi and temperatures -450°F to +600°F.

PTFE JOINT SEALANT is highly compressible and will fill severe irregularities in sealing surfaces.

PTFE JOINT SEALANT is spooled in a range of sizes from 1 to 25mm (3/64" to 1") in diameter. Cut material with scissors and apply to sealing surface. Self-adhesive strip will hold firmly in place.

APPLICATIONS

- Pump and Compressor Housings
- Heat Exchangers
- Steam Vessel Flanges
- FRP (Fiberglass Reinforced Plastics) Vessels
- Glass Joints (On Rough or Irregular Surfaces and/or When Sanitized Conditions are Required)
- Flanges
- Manway Covers
- Concrete Lids



SPOOL SIZES *Jumbo Rolls Available

Width		Thickness	Length	A.S.T.	Grainger
Metric	Inches	Metric	Feet	P/N	SKU#
1mm	3/64"	1.0mm	100'	28001	NA
3mm	1/8"	1.55mm	100'	28003	NA
5mm	3/16"	2.0mm	75'	28005	40E312
7mm	1/4"	2.5mm	50'	28007	4UK01
10mm	3/8"	3.0mm	25'	28010	5E141
14mm	1/2"	5.0mm	15'	28014	5E142
17mm	5/8"	6.0mm	15'	28017	NA
20mm	3/4"	7.0mm	15'	28020	5E143
25mm	1"	10.0mm	15'	28025	NA
14mm	1/2"	5.0mm	150' *	28314	40E311
20mm	3/4"	7.0mm	100' *	28320	40E313

FEATURES/BENEFITS

- Self Adhesive/Easy to Work with
 - No Re-Torquing Required After Initial Installation
 - Will Not Deteriorate with Age
 - Resists Cold Flow and Creep
 - Reduces Inventory for Cut Gaskets
 - Meets FDA Requirements 21 CFR 177.1550
 - Flanges Part Easily
 - UL Recognized Component
- *UHF-Uniform and Highly Fibrillated



ANTI-SEIZE TECHNOLOGY
FRANKLIN PARK, IL U.S.A.
1-877-ANTI-SEIZE
www.antiseize.com
28000

PRODUCT INFORMATION Poly-Temp® PTFE-UHF JOINT SEALANT

POLY-TEMP® JOINT is a 100% expanded PTFE/UHF gasket material. It comes in a soft, pliable ribbon with a self-adhesive tape applied to one side. It is a tough, flexible and economical universal gasket that replaces cut gaskets in a variety of regular and severe service applications.

- Self-Adhesive • Flanges Part Easily • No Re-Torquing Required After Initial Installation
- Meets FDA Requirements • Will Not Deteriorate With Age • Resists Cold Flow and Creep
- Reduces Inventory of Cut Gaskets • Unaffected By Common Chemicals
- Fills Severe Irregularities in Sealing Surfaces

TYPICAL PHYSICAL PROPERTIES

Temperature Range: -450°F to +600°F (-268°C to +316°C)

Heat of Combustion: 1434 + 100 cal/g

Auto-ignition Temp: 939 + 100°F

Modulus of Elasticity: 50,000 psi @ 73°F

Matrix Tensile Strength: 3000 psi - 6800 psi

Chemical Compatibility: Inert except with elemental fluorine and molten alkali metals

Seals subject to radiation exposure. Exposed to 17 Megarads of gamma radiation on steel flanges with no loss of seal.

Pressure Range: Up to 3000 psi (liquid)

Specific Gravity: 0.45- 0.55, compressed to 2.0 - 2.1

Thermal Conductivity: 0.601 BTU - in/hr - ft² - °F @ 75°F

Coefficient of Friction: .02

Toxicity: Non-Toxic

APPLICATIONS

Flanges, Pump & Compressor Housings, Heat Exchangers, Manway Covers, Rough or Irregular Surfaces, FRP Vessels, Steam Vessel Flanges, Concrete Lids, Glass Joints, Food Services & Processes

- FDA Meets FDA requirements: PTFE- 21 CFR 177.1550; Adhesive- 21 CFR 175.105
- DVGW German Federation of Gas and Water Technology
According to DVGW No. 11 G/Dr. Dri-PG, PTFE JOINT SEALANT is suitable for the gas supply at internal pressure up to 232 psig (16 bar) in the temperature range from 14°F (-10°C) to 122°F (50°C).
- BAM German Institute for Material Research and Test
According to BAM No. 13621-87-4-4625, there is no reflection against the usage of PTFE SEALANT for the oxygen supply, sealing the flanges made of copper, copper alloy, or steel at internal pressure up to 580 psig (40 bar) in the temperature up to 140°F (60°C).
- TUV Technical Supervisory Federation of Bavaria in Germany, Materials and Structural Engineering Division, Quality Monitoring.
According to TUV No. 191604, MP3/7381, the characters of the sealing values are as per Chart 1 and Chart 11 on page 6.

SIZE RECOMMENDATIONS

SIZE SELECTION REFERENCE

150-300 lb. ANSI Flanges	Use This Size
1/2"	1/8"
3/4" - 1 1/2"	3/16"
2" - 4"	1/4"
5" - 8"	3/8"
10" - 16"	1/2"
18" - 22"	5/8"
24" - 36"	3/4"
36" plus	1"

NON-STANDARD OR SPECIAL SIZE FLANGES

Sealing Width	Use This Size
1/8" - 1/4"	1/8"
5/16" - 3/8"	3/16"
7/16" - 5/8"	1/4"
3/4" - 1"	3/8"
1 1/8" - 1 1/2"	1/2"
1 5/8" - 2"	5/8"
2" - 2 1/2"	3/4"
2 1/2" plus	1"

CAUTIONS:

Read all information on labels and Material Safety Data Sheet prior to use. All products should be tested and evaluated for a particular purpose prior to use.

SIZES AVAILABLE WITH PART NUMBERS

1mm	1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
x100'- 28001	x100'- 28003	x75'- 28005	x50'- 28007	x25'- 28010	x15'- 28014	x15'- 28017	x15'- 28020	x15'- 28025
x1000'- 28301	x1000'- 28303	x750'- 28305	x100'- 28107	x50'- 28110	x30'- 28114	x30'- 28117	x30'- 28120	x30'- 28125
			x500'- 28307	x250'- 28310	x150'- 28314	x150'- 28317	x100'- 28320	x75'- 28325

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