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POLY-TEMP® JOINT

PTFE-UHF Joint Sealant

Product Description

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. Poly-Temp Joint is a tough, flexible, and economical universal gasket that replaces cut gaskets in a variety of regular and severe service applications. It will not deteriorate with age, is unaffected by common chemicals, withstands pressures up to 3,000 psi and temperatures -450° to +600°F (-268°C to +316°C). This unique material is highly compressible and fills severe irregularities in sealing surfaces.

Features & Benefits

- Self-adhesive, easy to work with
- Flanges part easily
- No re-torquing required
- Will not deteriorate with age
- Resists cold flow and creep
- Meets FDA requirements
- Reduces inventory of cut gaskets by eliminating need
- UL and ULC recognized component

Applications Include

Flanges, Pump and Compressor Housings, Heat Exchangers, Manway Covers on Rough or Irregular Surfaces, FRP Vessels, Steam Vessel Flanges, Concrete Lids, Glass Joints, Food Service and Processes. TFE is recommended for Pipe Threads carrying Water, Steam, LP, and Natural Gas, Refrigerants, Solvents, Caustics, Dilute Acids, Oils, and Diesel Fuel. Withstands temperatures to 500°F (260°C) and pressures to 10,000 psi (liquid), 2,000 psi (gas).

Acceptance/Approvals

FDA - PTFE Joint Sealant meets FDA requirements: PTFE - FDA21 CFR177.1550. Adhesive - FDA21 CFR175.105.

DVGW - German Federation of Gas and Water Technology - According to DVGW No. 11G/Dr. Dri-PG, PTFE Joint Sealant is suitable for the gas supply at internal pressure up to 232 psig (16bar) 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 Joint Sealant for the Oxygen Supply, sealing the flanges made of copper, copper alloy or steel at internal pressure up to 580 psig (40bar) in the temperature up to 140°F (60°C).

TUV - Technical Supervisory Federation of Bavaria in German, Materials and Structural Engineering Division, Quality Monitoring - According to TUV No. 191604, MP3/7381, the characters of the sealing values are as per Chart I and Chart II.

Typical Properties

Property	Value
Temperature Range	-450°F to +600°F (-268° to +316°C)
Pressure Range	Up to 3000 psi
Heat of Combustion	1434 ± 100cal/g
Specific Gravity	0.45-0.55, compressed to 2.0-2.1
Autoignition Temp	939 + 100°F
Thermal Conductivity	0.2 BTU/hr-ft @ 0°C
Modulus of Elasticity	500psi @ 73°F
Chemical Compatibility	Inert except with elemental fluorine and alkali metals
Coefficient of Friction	0.2
Matrix Tensile Strength	3000psi - 6800psi
Toxicity	Non-Toxic
Seals subject to radiation exposure	Exposed to 17 Megarads of gamma radiation on steel flanges with no loss of seal

Cautions

Read all information on labels and Material Safety Data Sheets prior to use. All products should be tested and evaluated for a particular purpose prior to use. This sheet provides information and data is based on information we believe reliable. You should thoroughly test any application and independently conclude satisfactory performance before final application.

ANTI-SEIZE TECHNOLOGY

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PTFE-UHF Joint Sealant

28220 28025 28125 28325

Size Recommendations

Size Selection Reference

150-300lb. 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" - 24"	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"

Cut material with scissors and apply to sealing surface. Self-adhesive strip will hold firmly in place.

Product Limited Warranty

This information is based on information we believe to be reliable and accurate, but no guarantee of its accuracy is made for a particular application. We urge and recommend that Users pretest their application prior to incorporating the product into use and assume that the User will conduct such testing. Also see warranty statement on website.

Available In:

<u>1mm x 100'</u>	<u>1mm x 100'</u>	<u>1/8" x 100'</u>	<u>1/8" x 1000'</u>	<u>3/16" x 75'</u>
28001	28301	28003	28303	28005
<u>3/16" x 750'</u>	<u>1/4" x 50'</u>	<u>1/4" x 100'</u>	<u>1/4" x 500'</u>	<u>3/8" x 25'</u>
28305	28007	28107	28307	28010
<u>3/8" x 50'</u>	<u>3/8" x 250'</u>	<u>1/2" x 15'</u>	<u>1/2" x 30'</u>	<u>1/2" x 150'</u>
28110	28310	28014	28114	28314
<u>5/8" x 15'</u>	<u>5/8" x 30'</u>	<u>5/8" x 150'</u>	<u>3/4" x 15'</u>	<u>3/4" x 30'</u>
28017	28117	28317	28020	28120
<u>3/4" x 50'</u>	<u>1" x 15'</u>	<u>1" x 30'</u>	<u>1" x 75'</u>	

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