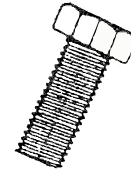


CAIN BOLT & GASKET INC.



Material Specifications

All materials are selected to provide quality products that will assure long term effective sealing and electrical insulation of flanged joints. Several gaskets are made

with combinations of materials to take advantage of the best characteristics of each. The following table lists some of the more important characteristics.

	ASTM Test Method	GasketSeal™	PSI LineBacker™	Pyrox™ LineBacker™	Neoprene* Faced Phenolic	Plain Phenolic	Glass Reinforced Resin
Dielectric Strength Volts/Mil	D229	500	500	550	500	500	400
Compressive Strength Lbs./Sq. In.	D229	24,000	24,000	50,000	24,000	24,000	—
Flexural Strength Lbs./Sq. In.	D229	22,500	22,500	60,000	22,500	22,500	18,000 Min.
Impact Strength IZOD Ft.-Lb./In. of Notch	D732	1.2	1.2	10.0	1.2	1.2	4
Rockwell Hardness Scale "M"	D229	85	85	115	85	85	60
Shear Strength Lbs./Sq. In.	D229	10,000	10,000	—	10,000	10,000	—
Tensile Strength Lbs./Sq. In.	D229	25,000	25,000	50,000	25,000	25,000	5,000
Water Absorption % (1/8" Thick)	D229	1.6	1.6	.05	1.6	1.6	8 Max.
Recommended Max. Temp. For Cont. Use	—	+225°F +110°C	+225°F +110°C	+350°F** +175°C	+175°F** +80°C	+225°F +110°C	+220°F +105°C
Recommended Min. Temp. For Cont. Use	—	-65°F -55°C	-65°F -55°C	-350°F -210°C	-65°F -55°C	-65°F -55°C	-65°F -55°C

*These values apply to the core material—neoprene facing for sealing purposes only.

**This value applies to neoprene material only, other values based on core material.

***Pyrox 11, +350°F. (+175°C.)

***Pyrox 10, +200°F. (+93°C.)

Recommended Installation Procedure

1. Type "E" gaskets will prevent foreign material from making electrical contact between flanges. However, if Type "F" or "D" gaskets are used, the outside of the flange should be taped to keep out foreign material.

2. The inside diameter of the gasket is made slightly smaller than the inside diameter of the flange. Care should be taken to

see that the gasket is properly centered over the bore to prevent build-up of foreign material between the flange faces when pigging.

3. Single washer insulating sets are recommended for buried flanges, and should be installed on the unprotected side of the flange to provide cathodic protection for the studs and nuts. Double

washers may be used for above ground flanges for ease in testing.

4. Use alignment pins whenever possible to assure proper alignment of flanges and gasket. Pins should be a minimum of 3/32" (2.38mm) larger than the bolt.

DISCLAIMER: Properties and application parameters shown in this manual are presented in good faith but no warranty is expressed or implied. Failure to properly use gasket material could result in serious injury or death.

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