



FLANGE INSULATION KITS



Lone Star offers a variety of sealing selections for applications where cathodic corrosion is a concern. Gaskets are produced in accordance with ANSI B16.5 specifications and can be supplied individually or assembled in kit form with sleeves and washers. Lone Star insulation products are manufactured from materials with superior high dielectric strength, low water absorption and chemical stability to maintain the high quality required in refinery and chemical plant applications. Hydrocarbon exposure, weathering and salt water are no problem for LoneStar insulating materials.

Style D gaskets are designed to fit the ring groove of a RTJ flange. Style R gaskets in oval or octagonal are machined from a fabric-reinforced phenolic material to ASME B16.20

Style F gaskets are raised faced flange gaskets offered in Neo-Faced Phenolic, G-10 with Elastomer Seal Rings, or Compressed Composite with strong dielectric properties.

Style E gaskets are a full-faced bolt holed gasket fit to insure proper alignment. Type E gaskets are offered in Neo-Faced Phenolic, G-10 with Elastomer Seal Rings or Compressed Composite with strong dielectric properties.

Insulating Gasket Materials

Properties	Plain Faced Phenolic	Nitrile Faced Phenolic	Non-Asbestos
Water Absorption In Percent	1.10%	0.45%	-
Hardness Rockwell M	105	-	-
Tensile With Grain psi	13,000	13,000	-
Compression Flatwise psi	39,000	39,000	-
Flexural Flat W/Grain psi	22,000	22,000	3,000
Dielectric Strength VPM	200	200	400
Dielectric Constant	4.5	4.5	-
Max. Cont. Operating Temp.	225°F/107°C	175°F/79.5°C	700°F/371°C
Nema Grade	CE	-	None

Insulating Sleeve Materials

Material	Dielectric Strength (volts/mil)	Water Absorption %	Max Continuous Operating Temp.
Integral	450	0.90	180°F / 82°C
Mylarr	4,000	0.80	300°F / 149°C
Nomexr*	720	---	600°F / 315°C
Phenolic**	140	2.00	225°F / 107°C
Polyethylene***	400-500	0.01	150°F / 66°C

Insulating Washer Materials

Material	Dielectric Strength volts/mil	Compressive Strength (Flatwise) psi	Flexural Strength (Flatwise with grain) psi	Max. Continuous Operating Temperature
Non-Asbestos	400	-	3,000	700°F / 371°C
Phenolic	200	39,000	22,000	225°F / 107°C