



GUARDIAN BASIC IE

Composition

- Gasket
 - Thickness 3.00 mm
 - Phenolic
- Insulating sleeves
 - Thickness: 0.90÷1.10 mm
 - Phenolic
- Insulating washers
 - Thickness: 3.00 mm
 - Phenolic
- Metallic Washers
 - Thickness: 3.00 mm
 - Option A: Zinc Plated Carbon Steel
 - Option B: Other metals on request

Applications

Flange isolation kit.

Tech Data

TEST METHOD	FEATURES	Phenolic ⁽²⁾	Phenolic Rubber Faced ⁽³⁾	Mylar ⁽¹⁾	Nomex ⁽¹⁾	G10 (FR4) ⁽²⁾	G11 (FR5) ⁽²⁾
D149	Dielectric Strength KV/mm Short Time	20,0	20,0	15,8	18,0	-29,5÷31,50	21,5
D695	Compressive Strength (MPa)	172,0	172,0	-	-	448,0	434,0
D638	Tensile Strength (MPa)	138,0	138,0	69,0	620,0	344,0	290,0
D570	Water Adsorption (%)	1,6	1,6	0,8	7,0	0,1	0,1
-	Temperature - Operating °C	-50÷100	-40÷100	-50÷150	-50÷230	-150÷150	-75÷200

Note (1): Material available only for sleeves.

Note (2): Material available for retainer, sealing element, sleeve and washer.

Note (3): Material available for retainer and washer.

Gasket Pressure range		Sealing Element - Temperature range	
ASME Gasket Pressure Range	150÷300 lbs	Phenolic	-50°C÷100°C
PN Gasket Pressure Range	PN2,5÷PN40		

* The maximum operating temperature of the kit is the lowest among its individual components.

* Customized kits are available with tailored thickness and component materials.



Guardian Basic IE

The **Guardian Basic IE** flange insulation kit uses phenolic material as both sealing and electrical insulation, providing a solid and reliable solution for standard applications.

The gasket can also be rubber-coated in the **IER model** to reduce permeability and improve performance under specific operating conditions.

Washers and sleeves may also be made of phenolic material, but the use of GRE G10 (FR4) is strongly recommended; its lower permeability ensures long-term stability of the sealing and insulation system.

Guardian Basic IE can be used continuously within the temperature range -40°C to 250°C and with pressure ranges up to 300 lbs and PN40.

* In the standard configuration, the kit is supplied with insulating phenolic sleeves and washers.



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