



# 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 <sup>(2)</sup>	Phenolic Rubber Faced <sup>(3)</sup>	Mylar <sup>R (1)</sup>	Nomex <sup>R (1)</sup>	G10 (FR4) <sup>(2)</sup>	G11 (FR5) <sup>(2)</sup>
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  $-40^{\circ}\text{C}$  to  $250^{\circ}\text{C}$  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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