

GUARDIAN PREMIUM IS

Composition

Retainer

Option B: G10 (FR4)Option C: G11 (FR5)

Sealing Element

Option A: PTFEOption B: NBROption C: FKM

Insulating sleeves

Thickness: 0.90÷1.10 mm■ Option A: GRE G10 (FR4)

Option B: GRE G11 (FR5)

• Insulating washers

o Thickness: 3.00 mm

Option A: GRE G10 (FR4)Option B: GRE G11 (FR5)

Metallic Washers

o Thickness: 3.00 mm

Option A: Zinc Plated Carbon SteelOption B: Other metals on request

Applications

Insulating kit for flanges.

Tech Data

| TEST METHOD | FEATURES | Mylar ^{® (1)} | Nomex® (1) | G10 (FR4) ⁽²⁾ | G11 (FR5) ⁽²⁾ |
|-------------|--------------------------------------|------------------------|------------|--------------------------|--------------------------|
| D149 | Dielectric Strength KV/mm Short Time | 15,8 | 18,0 | -29,5÷31,50 | 21,5 |
| D695 | Compressive Strength (MPa) | - | - | 448,0 | 434,0 |
| D638 | Tensile Strength (MPa) | 69,0 | 620,0 | 344,0 | 290,0 |
| D570 | Water Adsorption (%) | 0,8 | 7,0 | 0,1 | 0,1 |
| | Temperature - Operating °C | -50÷150 | -50÷230 | -150÷150 | -75÷200 |

Note (1): Material available only for sleeves.

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

| Gasket Pressure range | | | Sealing Element - Temperature range | | |
|----------------------------|---------------|--|-------------------------------------|--------------|--|
| ASME Gasket Pressure Range | 150÷1500 lbs | | PTFE | -200°C÷250°C | |
| API Gasket Pressure Range | 2000÷5000 psi | | NBR | -40°C÷120°C | |
| PN Gasket Pressure Range | PN6÷PN250 | | FKM | -29°C÷200°C | |

* 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 Premium IS

Guardian Premium IS flange isolation kits do not use any metallic retainers, as GRE (Glass Reinforced Epoxy) acts both as the retainer and the insulator.

The gasket can be used on RF, FF, and also RTJ flanges, replacing the inefficient phenolic Ring Joints.

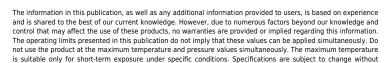
The sealing element can be made of PTFE, nitrile rubber (NBR), or fluorinated rubber (FKM).

The gasket groove is designed to prevent retainer breakage in case of overstress and to enhance the elasticity of the sealing element.

Guardian Premium IS is suitable for use up to 200°C, depending on the selected GRE, in ANSI 150 - 1500#, API 2 - 5K#, and PN 6 - 250# ratings.

* In the standard configuration, the kit is supplied with insulating sleeves and washers in GRE G10 (FR4).





prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.

