



GUARDIAN PERFORMER ICA

Composition

- Gasket + sealing layers
 - Thickness: 6.35 mm (0.250")
- SS316 Metal Core (other available on demand)
 - Thickness: 3.00 mm (0.120")
- GRE Laminate (for side)
 - Thickness: 1.60 mm (0.065")
 - Option A: G10 (FR4)
 - Option B: G11 (FR5)
- Sealing Element
 - Option A: PTFE with SS spring
 - Option B: NBR
 - Option C: FKM
- Insulating sleeves
 - Thickness: 0.90÷1.10 mm
 - Option A: GRE G10 (FR4)
 - Option B: GRE G11 (FR5)
- Insulating washers
 - Thickness: 3.00 mm
 - Option A: GRE G10 (FR4)
 - Option B: GRE G11 (FR5)
- Metallic Washers
 - Thickness: 3.00 mm
 - Option A: Zinc Plated Carbon Steel
 - Option 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 |

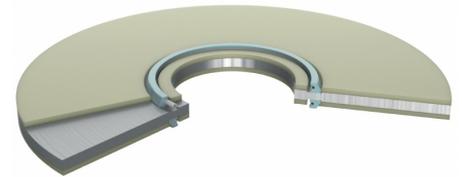
Note (1): Material available only for sleeves.

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

| Gasket Pressure range | | Sealing Element - Temperature range | |
|----------------------------|----------------|-------------------------------------|--------------|
| ASME Gasket Pressure Range | 150÷2500 lbs | Lip Seal PTFE | -200°C÷260°C |
| API Gasket Pressure Range | 2000÷10000 psi | NBR | -40°C÷120°C |
| PN Gasket Pressure Range | PN2,5÷PN420 | 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 Performer ICA

The Insulation Kits Guardian Performer ICA use a metal support on which the isolation GRE layers are applied.

The GRE materials (Glass-Reinforced Epoxy), available in the styles G10 (FR4) and G11 (FR5), are an excellent insulating barrier and offer at the same time a considerable mechanical and chemical resistance, allowing its use in a wide range of applications.

The energized PTFE gasket ensures a high quality seal thanks to its anchorage to the metal retainer.

The isolation kits for flanges can be used on the RF, FF and RTJ shapes to replace the inefficient Phenolic Ring Joint. The isolating Kits Guardian Performer ICA are suitable up to 200 °C in ANSI ratings 150 - 2500 # and API 2 - 10K # and PN 420 #.

** In the standard configuration, the kit is supplied with a SS316L retainer and with insulating sleeves and washers in GRE G10 (FR4).*



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Carrara S.p.A.,
Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 carrara.it - info@carrara.it