GUARDIAN BASIC ICSF

Composition

- Gasket: Compressed fibres style Planiflex PF64
  - Thickness 3.00 mm
- 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

Characteristics

For the technical characteristics of Planiflex™ PF64, please refer to the following technical data sheet: compressed-fiber-gaskets-planiflex-pf64

Applications

Flange isolation kit.

Tech Data

TEST METHOD	FEATURES	G10 (FR4)[4]	G11 (FR5)[4]	CSF Aramid NBR[2]
D149	Dielectric Strength KV/mm Short Time	-29,5÷31,50	21,5	4,7
D695	Compressive Strength (MPa)	448,0	434,0	65,0
D638	Tensile Strength (MPa)	344,0	290,0	9,0
D570	Water Adsorption (%)	0,1	0,1	4,5
--	Temperature - Operating °C	-150÷150	-75÷200	-40÷250

TEST METHOD	FEATURES	Phenolic[4]	Phenolic Rubber Faced[3]	Mylar® [1]	Nomex® [1]
D149	Dielectric Strength KV/mm Short Time	20,0	20,0	15,8	18,0
D695	Compressive Strength (MPa)	172,0	172,0	-	-
D638	Tensile Strength (MPa)	138,0	138,0	69,0	620,0
D570	Water Adsorption (%)	1,6	1,6	0,8	7,0
--	Temperature - Operating °C	-50÷100	-40÷100	-50÷150	-50÷230

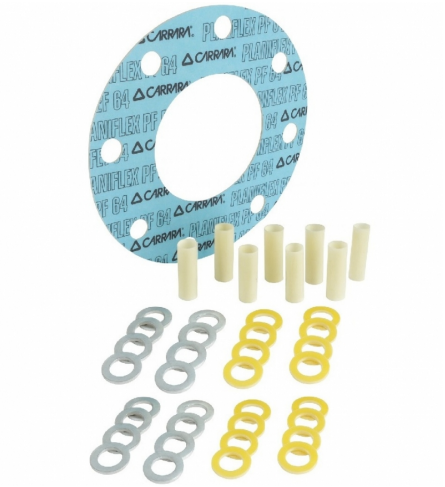
Note (1): Material available only for sleeves.
Note (2): Material available for retainer and sealing element.
Note (3): Material available for washer.
Note (4): Material available for sleeve and washer.

Gasket Pressure range	
ASME Gasket Pressure Range	150÷300 lbs
PN Gasket Pressure Range	PN2,5÷PN40

Sealing Element - Temperature range	
CSF	-40°C÷250°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.

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Guardian Basic ICSF

The flange insulation kit **Guardian Basic ICSF** uses Planiflex® PF64 like sealing and insulating material. This gasket is made by aramid-based materials and NBR rubber, specially selected to meet high performance standards for a wide range of industrial applications.

Planiflex® PF64 can be applied at the temperature -40°C to 250°C and at the pressure classes 150-600 lbs and PN100, size up to 3" and DN80 and in 300 lbs and PN40 ratings for larger sizes.

These gaskets show the typical chemical compatibility of the nitrile rubbers in the pH range . Planiflex® PF64 is applicable for sealing with vapors, lubricants, solvents, gases, steam and many diluted acids and alkalis. Its dielectric strength of about 20 KV/mm is satisfactory in many corrosion protection applications.
To maximize the effectiveness of this kit it is always recommended to use Sleeves and Waskers in GRE G10 (FR4).

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

CARRARA® GLOBAL SEALING SOLUTIONS

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