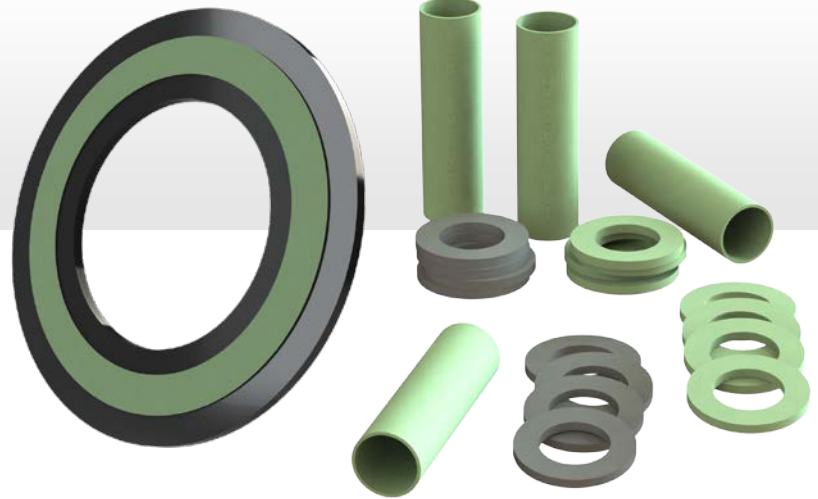


## PRODUCT DATASHEET

### ISOFLEX™-FS Isolation Kit

ISOFLEX™-FS is a fire safe flange isolation gasket made with NEMA grade glass-reinforced epoxy (GRE) and metallic Kammprofile seals



ISOFLEX™-FS flange isolation gasket employs industry proven metallic Flexpro seal design, with Flexitallic proprietary corrosion mitigating sealing material, Corriculite®. The electrical isolation barrier is constructed using aerospace material polyimide, located within the gasket core, shielded from any potential damage. ISOFLEX™-FS is fire safe per API 6FB standard, and has excellent sealing performance that exceeds MESC SPE 85/300-2017 fugitive emissions class A requirement

#### Service:

Suitable for use in critical, high pressure applications involving hot and cold water, steam, oils, fuels, gases and a wide range of general chemicals.

#### Gasket Factors:

M	2.0
Y	5000

#### Availability:

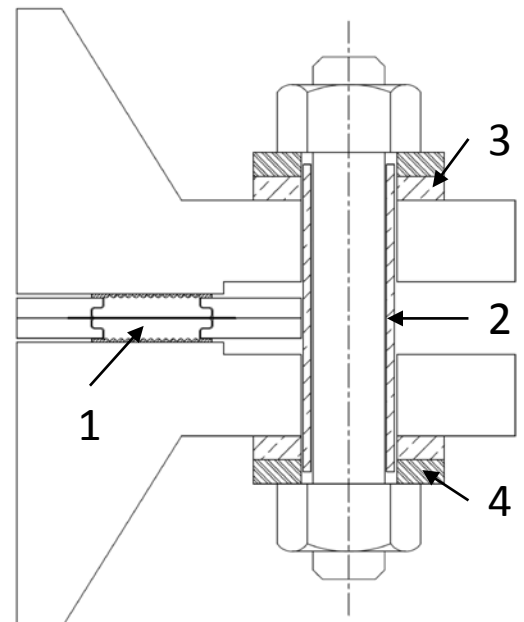
All ANSI, ASME B16.5, and AWWA sizes. Pressure class up to 2500#. GRE rings available in NEMA grade G10, G11 and industry standard metals. Seals available in Corriculite® and Thermiculite®. Metallic core available in industry standard metals.

Thickness: 1/4"

Color: Black and green

#### Isolation Kit Components:

- Isolation Gasket** – ISOFLEX™-FS isolation gasket. Metallic cores separated by polyimide film, Corriculite® or Thermiculite® facings, G10 or G11 inner and outer rings
- Isolation Sleeves** – G10, G11, PTFE, or mica
- Isolation Washers** – G10, G11 for non-fire safe applications, mica or mica faced CRS for fire safe applications
- Metallic Washers** – Zinc plated carbon steel



## PRODUCT DATASHEET

### Recommended Temperature Range:

Inner & Outer Rings Material	Minimum Temperature °F (°C)	Maximum Temperature °F (°C)
G10	-40 (-40)	302 (150)
G11	-40 (-40)	392 (200)

### Typical GRE Components Physical Properties:

Properties	Test Standard	Typical Value	Unit
Breakdown Voltage	ASTM D149	45	kV
Dielectric Strength	ASTM D149	550	V/mil
Impact Strength	ASTM D256	12	ft-lb/in
Flexural Strength	ASTM D790	55	ksi
Tensile Strength	ASTM D638	50	ksi
Compressive Strength	ASTM D695	50	ksi
Shear Strength	ASTM D732	22	ksi
Water Absorption	ASTM D570	0.1	%

### Typical Polyimide Film Physical Properties:

Properties	Test Standard	Typical Value	Unit
Tensile Strength	ASTM D882	24	ksi
Dielectric Strength	ASTM D149	3000	V/mil
Volume Resistivity	ASTM D257	1.0 x 10 <sup>15</sup>	Ohm cm

This data sheet refers to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same.

We reserve the right to change the details given on this data sheet as additional information is acquired. Customers requiring the latest version of this data sheet should contact our Applications Engineering Department.

The information given and, in particular, any parameters, should be used for guidance purposes only. The company does not give any warranty that the product will be suitable for the use intended by the customer.