

The Flexitallic I-Flex High Pressure Fire-Safe (FS-HP) Flange Isolating Set is comprised of a fire safe insulating gasket, insulating sleeves, insulating washers and metal backing washers.

The insulating gasket is constructed from a serrated metal core with unique profile. The metal core is faced with Thermiculite® 725; a high performance, fire safe sealing material incorporating Flexitallic's proprietary vermiculite based sealing material. Correct gasket location is ensured by the inclusion of a Thermiculite® 725 spacer ring positioned around the periphery of the serrated metal core.

Colour: Brown

## Service

Flexitallic I-Flex fire-safe flange insulation sets are specifically designed to effect a seal and maintain electrical isolation across a wide range of seating stresses and flange classes in elevated temperature service.

They can be utilised in load compromised connections; such as damaged and/or lined flanges and also heavily bolted connections where significant gasket stresses may be generated.

In addition the relatively high compression characteristics of the facing materials ensure both seal and isolation performance can be realised over a wide range of flange surface finishes.

The use of Thermiculite® 725 as the sealing material pushes the performance of the fire-safe insulation set beyond the capability of traditional insulation sets based on phenolic resin or glass/epoxy sealing technology.

Operational pressure range:

Maximum Flange pressure class

2500 Class ASME 16.5, ASME 16.47

5000 Class API 6A

Operational temperature range:

Fire safe isolation kit - 200 up to 150°C

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Fire safe compliance API 6FB (Third edition)

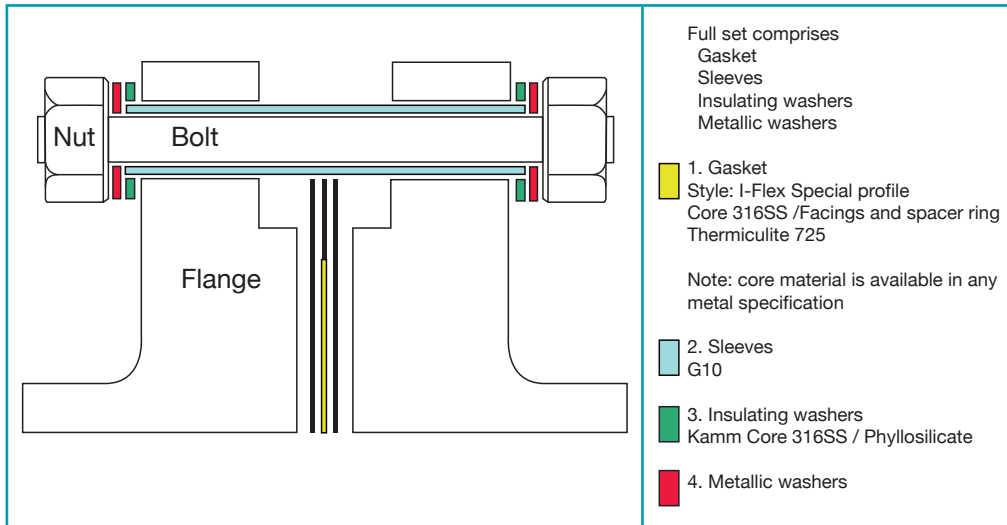
Thermiculite® 725 facing material is suitable for sealing across a wide range of chemicals (pH 0-14) and sweet and sour gaseous and liquid hydrocarbons. Gasket and washer metallurgy is selected to suit the particular application.

Unless specified all materials are NACE (MRO175) compliant.

The insulating gasket and washers have been designed and developed for use in standard pipeline flanges requiring cathodic protection and a high integrity fire safe seal.

For non-standard bolted connections please consult Seaco.

Sealing performance for high pressure flanged connections ie. ASME B16.5 class 2500 pressure systems, has been independently verified for ambient and maximum temperature/pressure combinations. Additional information is available on request.



## Insulating Sleeves / Tubes – Thermal / Dielectric Properties

G10	– Temperature Range	150°C
G10	– Dielectric Strength	19.7 kV/mm
Mylar	– Maximum Temperature	149°C
Mylar	– Dielectric Strength	15.8 kV/mm
Phenolic	– Temperature Range	100°C
Phenolic	– Dielectric Strength	19 kV/mm
Nomex	– Maximum Temperature	232°C
Nomex	– Dielectric Strength	19.7 kV/m

## Insulating Washers - Thermal / Dielectric Properties

G10 – Temperature Range 150°C  
– Dielectric Strength 19.5 kV/mm

Phenolic – Temperature Range 100°C  
– Dielectric Strength 19 kV/mm

(Note: We would offer G10 as standard if not specified by the customer)

## Metallic Backing Washers

Stainless Steel 316 (as standard) 3mm thk.

(Note: Other metals can be provided to suit the application)

## The Standard I-Flex Set comprises of the following components

I-Flex Insulating Gasket	– up to 2500 class ASME 16.5	1 pc
	– 5000 class API 6A	1 pc
G10 Insulating Sleeves		1 pc per flange bolt
G10 Insulating Washers		2 pc's per flange bolt
Backing Washers 316SS		2 pc's per flange bolt

Maximum temperature: 150°C

Please contact the Seaco Applications Engineering Team when specific operating parameters requires confirmation of appropriate materials.

### Waranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.