

The Flexitallic I-Flex Fire-Safe High Temperature Isolation Flange Set (FS-HT) is comprised of a fire safe isolating gasket, isolating sleeves, isolating washers and metal backing washers

The isolating 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 isolation 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 isolation set beyond the capability of traditional isolation 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 - 100 up to 250°C

Fire safe compliance: API 6FB (Third edition)

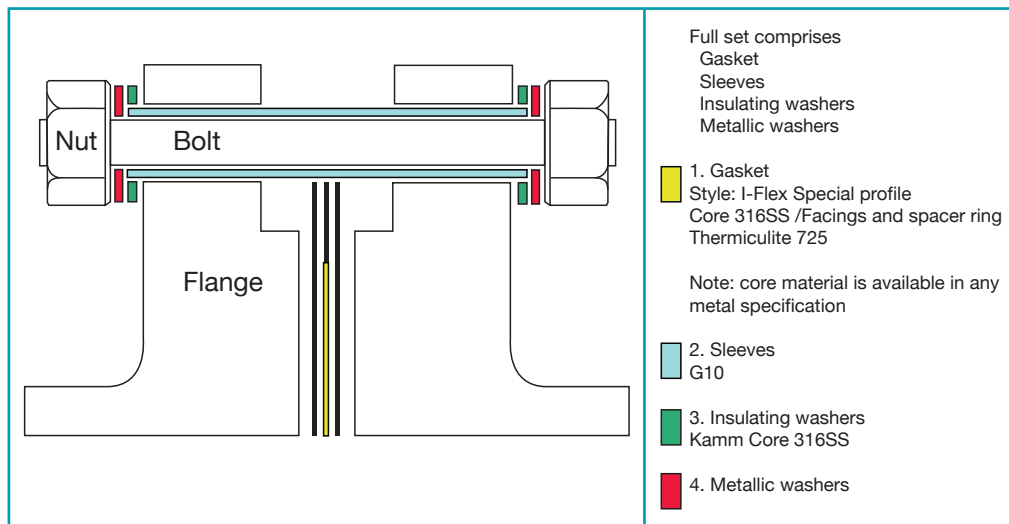
Thermiculite® 725 facing material is suitable for sealing across a wide range of chemicals (pH 0-14) and sweet and sour gaseous and liquid hydrocarbons. Gasket and washer metallurgy is selected to suit the particular application.

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, a high integrity fire safe seal and applications involving elevated service temperatures. For nonstandard 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

FLEXITALLIC FS-HT FLANGE ISOLATION SET



Insulating Washers - Thermal / Dielectric Properties:

Kamm/Phyllosilicate – Temperature Range 900°C
– Dielectric Strength 20 kV/mm

Metallic Backing Washers

Stainless Steel Washers 3mm thick
Other washer material can be provided to suit the application.

Each I-Flex FS-HT insulation set comprises of the following components

Fire-safe Insulating Gasket Kamm	1 per flange up to 2500 class ASME 16.5 – 5000 class API 6A
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Filamic Insulating Sleeves	1 per flange bolt
Phyllosilicate Insulating Washers	2 per flange bolt
Metallic Backing Washers	2 per flange bolt
Maximum temperature: 250°C	

Please contact Seaco when the 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.

Insulating Gasket & Washer Properties

Core Thickness	2.5mm to 4mm
Facing Thickness	0.75mm (x2)
ASME Gasket Factor (m)	4.00
ASME Minimum Seating Stress (Y)	3625 psi
Thermiculite® 725	
- Dielectric Strength (ASTM D149a)	6.1 kV/mm

Insulating Sleeves / Tubes – Thermal / Dielectric Properties

G10 – Temperature Range 150°C
G10 – Dielectric Strength 19,7 kV/mm