



KLINGER SHIELD HT INSULATION SETS



- » Insulation sets are used to limit corrosion in pipeline systems. Where dissimilar metals are present, the sets remove the possibility of the system acting as a galvanic cell and reduce the risk of galvanic corrosion of the pipework.
- » Insulation sets are also used to isolate cathodically protected piping systems where they prevent the flow of electrostatic charge.
- » Each insulation set comes with a KLINGER Shield HT insulation gasket, insulating washer set, high temperature insulation sleeves.



Figure 1 – Typical assembly with GW1 washers

Klinger Shield HT uses Thermica facing which is a CNAF fibre; using mica and NBR binder offers high flexibility, high temperature resistance and excellent compatibility across a broad range of chemicals.

| COMPONENT | UNITS | KLINGER THERMICA | MICA SLEEVES |
|--------------------------------------------------|-------------------|------------------|--------------|
| Compressibility | % | 12 | N/A |
| Recovery | % | <55 | N/A |
| Stress Relaxation (DIN 52913, 50MPa, 16h, 300°C) | MPa | 28 | N/A |
| Density | g/cm ³ | 1.7 | 1.8 |
| Dielectric Strength | kV/mm | 15 | 22 |
| Temperature Range | °C | -200 to 350 | -100 to 700 |

PROPERTIES

- » Continuous service up to 350°C
- » Suitable for RTJ, RF and mismatched RF to RTJ flanges
- » Suitable for pressure ratings from Class 150 to 2500
- » Compressed fibre facings of mica & synthetic fibres bound with NBR on a high strength metallic core
- » Excellent chemical resistance
- » 3xA anti-stick finish

TESTS AND CERTIFICATIONS FOR KLINGER SHIELD HT

- » Fire-safe to DIN EN ISO 10497 / API 607
- » Fire-safe to API 6FB
- » Thermica complies with BS 7531 Grade AX

KLINGER SHIELD HT INSULATION SET COMPONENTS

| | | |
|----------------------------|-----------------------------------------|--------------------------------------------------|
| Insulating Gasket: | Class 150 to 2500 | 4.6mm Thermica with metallic core |
| Insulating Washers: | Class 150 to 2500: | GW1 - 7.5mm Metallic washers with Thermica core |
| | | 2 washers per bolt, suitable for use up to 350°C |
| Insulating Sleeves: | Mica, wall thickness 0.75mm, 1 per bolt | |

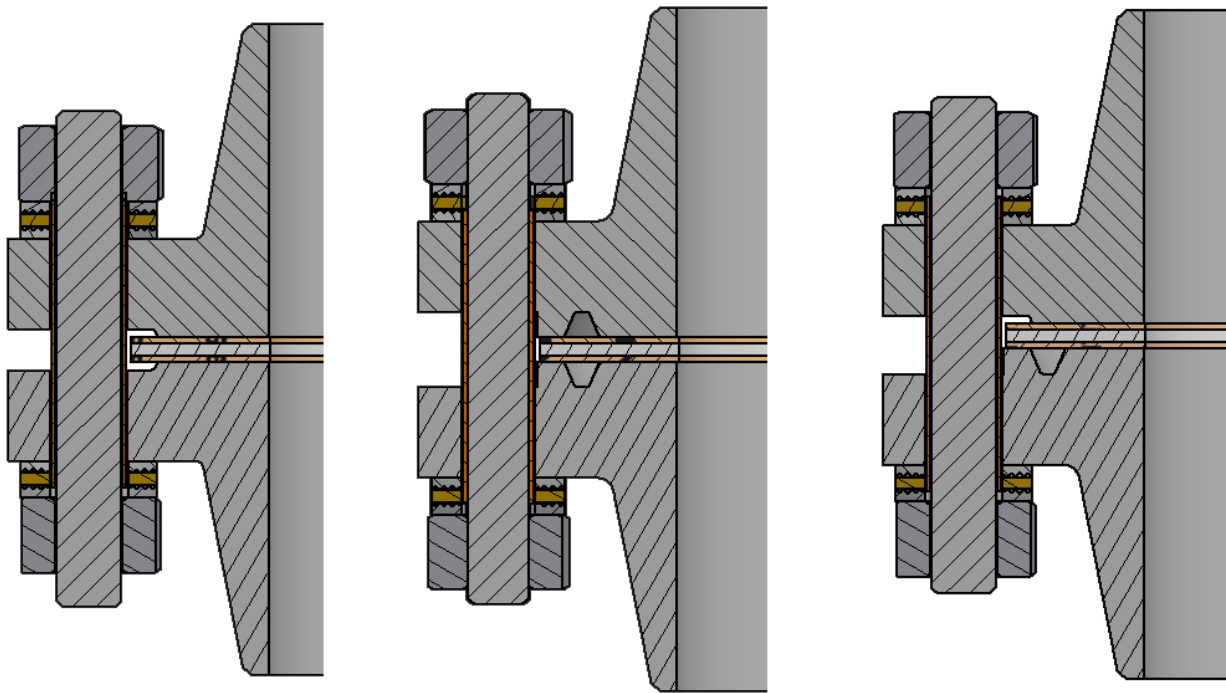


Figure 2 – Shield HT Insulation sets can be used between raised face & RTJ flanges and mismatched combinations. Washers shown, GW1 style

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