KLINGER SHIELD 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 electro-static charge.

Each insulation set comes with a KLINGER Shield insulation gasket, insulating washer set, high temperature insulation sleeves.



Figure 1 – Typical assembly with GW1 washers

Klinger Shield 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

GENERAL 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 & CERTIFICATIONS FOR KLINGER SHIELD

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

KLINGER SHIELD INSULATION SET COMPONENTS

Insulating Gasket:	Class 150 to 2500	4.6mm Thermica with metallic core
Insulating Washers:	Class 150 to 2500:	3.2mm HCS Washers 4 washers per bolt, suitable for use up to 260°C
Insulating Sleeves:	Mica, wall thickness 0.75mm,1 per bolt	

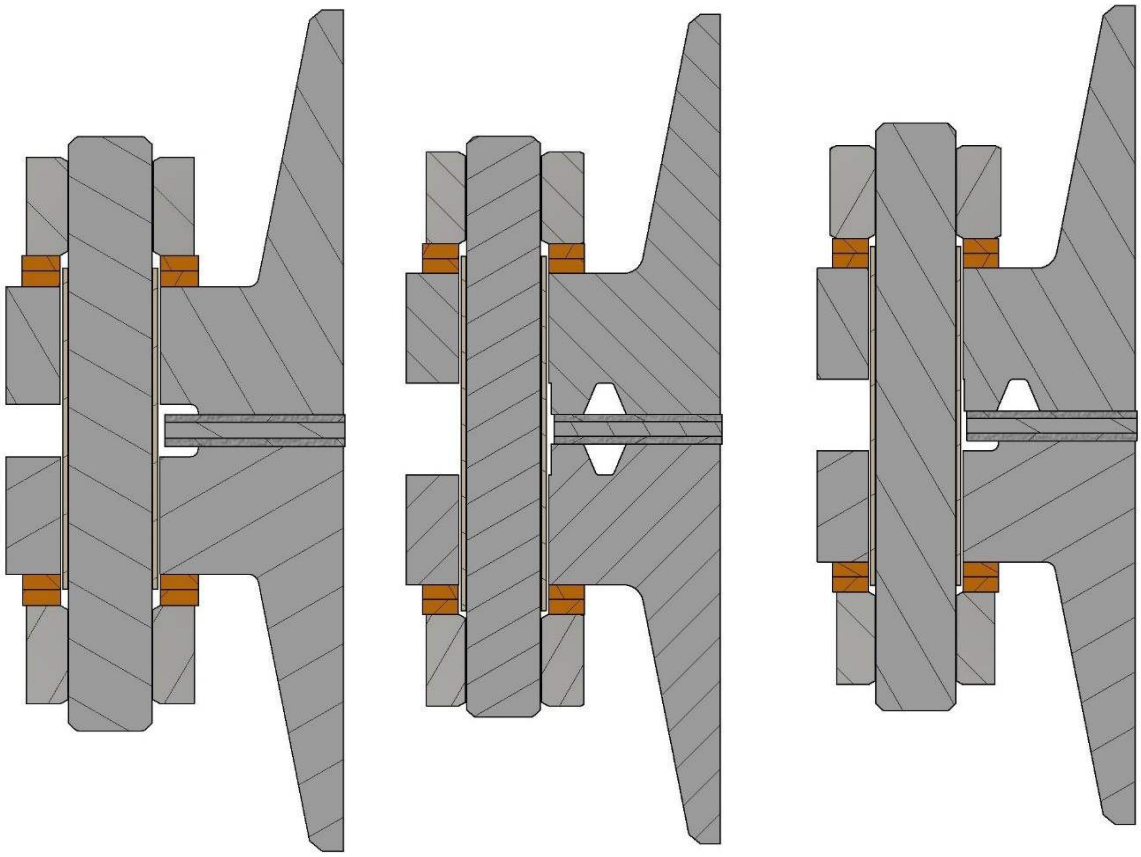


Figure 2 – Shield HT Insulation sets can be used between raised face & RTJ flanges and mismatched combinations. Washers shown are HCS type.

All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.