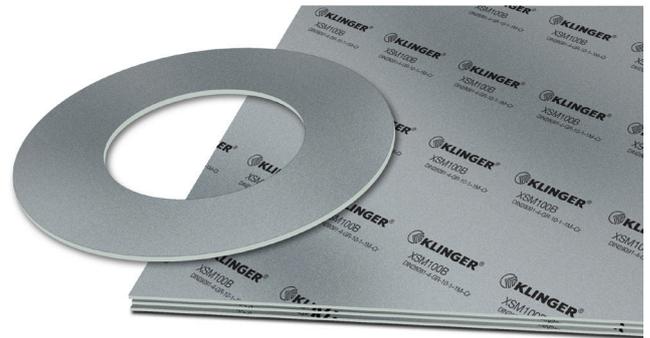




KLINGER® Graphite Laminate XSM - offers stable physical properties over the whole temperature range.

An adhesive-free gasket material comprising a flexible graphite foil and a stainless steel tang insert, this product is mainly used in the automotive industry as a result of its outstanding oxidation resistance. Suited for continuous high-temperature operation up-to 550°C, it is easy to handle, displays good scratch resistance as well as excellent chemical resistance.



Basis composition Flexible graphite foil with a tanged stainless steel insert.

Color Grey

Certificates Per request

Sheet size 1000 x 1000 mm, 2000 x 1000 mm

Thickness 1.0 mm, 1.5 mm, 2.0 mm

Tolerances

Thickness: ± 5 %
Length: ± 5 mm
Width: ± 5 mm

Industry

General industry / Chemical / Oil & Gas / Energy / Pulp & Paper / Marine / Automotive

TECHNICAL DATA - Typical values for a thickness of 2.0 mm

| | | | |
|--|-----------------------------|-------------------|--------------|
| Density of the graphite layer | DIN 28090-2 | g/cm ³ | 1.0 |
| Purity of graphite ¹⁾ | DIN 51903 | % | ≥ 99.0 |
| Metallic reinforcement | Tanged metal | | AISI 316 (L) |
| | Thickness | mm | 0.10 |
| | Number of sheets | | 1 |
| Compressibility | ASTM F36 A | % | 35 - 45 |
| Recovery | ASTM F36 A | % | 12 - 18 |
| Compression creep DIN 52913 | 16 h/ 50 MPa/ 300°C | MPa | ≥ 46 |
| Klinger cold/hot compression 50 MPa | Thickness decrease at 23°C | % | 35 - 45 |
| | Thickness decrease at 300°C | % | 1 - 3 |
| Specific leak rate | DIN 28090-2 | mg/ s x m | < 0.10 |
| Chloride content of graphite layer ²⁾ | DIN 28090-2 | ppm | ≤ 40 |

1) Detailed specifications of the used graphite foils can be sent to you on request

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