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KLINGER Graphite Laminate HL

KLINGER Flexible Graphite HL is a homogeneous sheet made from flexible graphite foil layers. HL is the standard industrial grade graphite sheeting with superior chemical resistance. The flexible graphite material is highly compressible and compactable allowing for low gas permeability with low electrical resistance. The grade is especially superior working with enamel surface as well as against strongly corrosive media.

In order to prevent the gasket material from sticking to the flange surface (even at high temperatures), the graphite surface can be given a non-stick coating upon request. With this process, the gasket material's surface is coated and not impregnated.

Typical Values Refer To 2.0mm Thick Material Unless Noted

Density of graphite layer DIN28090-2	1.0 g/cm ³
Purity of Graphite DIN 51903	≥ 99.0%
Compressibility ASTM F36A	40-50%
Recovery ASTM F36A	8-15%
Creep relaxation DIN 52913 16h/50 MPa/300C	≥ 46 MPa
KLINGER cold/hot compression 50 MPa	
Thickness decrease at 23C	35-50%
Thickness decrease at 300C	2-5%
Specific leak rate DIN 28090-2	< 0.10 mg/s x m
Chloride content of graphite layer DIN 28090-2	≤ 50 ppm
Color	Grey
Non-stick coating	Upon request