

# KLINGER® Graphite Laminate MLX (Multi Layer XTREME)

High performance graphite material with several plain stainless steel foil inserts

KLINGER® Graphite Laminate MLX is a high-performance material suitable in heavy-duty conditions because of its very high compressive strength. Gaskets from MLX material are an excellent choice for high-pressure applications. MLX gaskets are robust and adapt to any sealing surface including irregular flanges.



## KEY FEATURES AND BENEFITS

- » Excellent chemical resistance
- » Excellent torque retention
- » Extremely low stress relaxation
- » Stable physical properties over the whole temperature range

**CERTIFICATES AND APPROVALS** » Fire-Safe acc. to API 6FB

## TYPICAL VALUES REFER TO 2.0 MM THICK MATERIAL UNLESS NOTED

Continuous service temperature (in oxidizing atmosphere)	≤ 842°F (450°C)
Density of the graphite layer DIN28090-2	1.1 ± 5 %
Purity of Graphite	≥ 99.0 % carbon
Metallic reinforcement insert (0.05 mm): 316(L)	1.0 mm: 1 layer 1.5 mm: 2 layers 2.0 mm: 3 layers 3.0 mm: 5 layers 4.0 mm: 7 layers
Compressibility ASTM F36A	30 - 50 %
Recovery ASTM F36A	10 - 25 %
Creep relaxation DIN 52913 16h/50 MPa/300°C	≥ 45 MPa
Thermogravimetric analysis (TGA) DIN 28090-2 4h/670°C	≤ 3 %/h
Color	Grey

The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer's control.

**KLINGER Thermoseal**

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