![KLINGER trusted. worldwide. logo]

KLINGER® Graphite Laminate SLF

KLINGER® Graphite laminate SLF is composed of two layers of flexible graphite and a 0.3 mm thick high temperature resistant graphite and fiber based insert.

This material combines easy handling with outstanding long term sealing performance. It complies with the German TA-Luft (Clean-air). Recommended for applications in which graphite is the material of choice and minimal fugitive emissions are required.

Key features:

» Unique non-metallic reinforcement
» Excellent chemical resistance
» High temperature resistance

Benefits:

» Easy to cut
» Safe handling
» Excellent tightness

Certificates and approvals:

» TA-Luft (Clean air)

Properties: referring to Graphite materials

	MECHANICAL RESISTANCE	THERMAL RESISTANCE	SEALABILITY	CHEMICAL RESISTANCE
SUPERIOR				
EXCELLENT				
VERY GOOD				
GOOD				
MODERATE				

Industries:

INDUSTRY   CHEMICAL   OIL & GAS   ENERGY   TRANSPORT

Typical technical data for thickness 2.0 mm:

Compressibility ASTM F 36 A		%	40
Recovery ASTM F 36 A		%	14
Density		g/cm³	1.12
Density of Graphite		g/cm³	1.0
Leachable chloride content		ppm	< 40
Purity of graphite (carbon)		%	> 99
Insert	fiber reinforced	mm	0.3
Tightness	DIN 28090-2	mg/s x m	0.05
Stress relaxation	DIN 52913	MPa	40
KLINGER cold/hot compression	Thickness decrease at 25°C	%	42
50 MPa	Thickness decrease at 300°C	%	10
Continuous service temperature		°C	350
Thermogravimetric Analysis (TGA)	DIN 28090-2, 4 h, 670°C		< 4 %/h

Dimensions of the standard sheets:

Sizes:

1000 x 1500 mm

Thicknesses:

1.5 mm, 2.0 mm

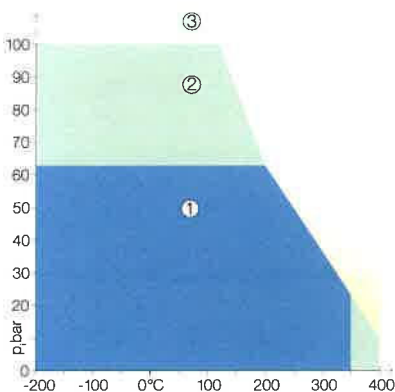**Tolerances:**

Thickness ±5 %
Length ±4 mm, width ±4 mm

Other graphite qualities, thicknesses and sizes on request.

pT diagram for thickness 2.0 mm:

① In area one, the gasket material is normally suitable subject to chemical compatibility.

② In area two, the gasket material may be suitable but a technical evaluation is recommended.

③ In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.