

KLINGER Graphite Laminate - General Properties

KLINGER graphite laminate consists of expanded graphite which is either glued on plain steel or rolled out on a tang insert. The amount of adhesive is < 1 % of the graphite weight, equally shared on the graphite surface in order to keep the excellent properties of graphite like:

- virtually no flow under a wide range of compressive loads and temperatures
- resilient from - 200°C up to + 450°C in air and more than 3000°C in inert atmosphere
- reliable gasket for gases and liquids (good seal even at low gasket stress)
- excellent micro sealing (lower gasket stress is required compared with other sealing materials)
- chemically resistant to virtually all media, except concentrated, highly oxidizing acids
- excellent resistance to temperature changes
- high thermal conductivity
- no health hazard
- unlimited storage life
- no bindings with glass or ceramics
- easy to cut

The following qualities are available:

		A	B	C grade
Purity	%	> 99.8	> 98.0	> 98.0
Chloride	ppm	< 20	< 40	< 50
Sulfur	ppm	< 600	< 800	< 1100
Temperatur range	°C	< 450	< 450	< 450

(based on installation and operating conditions higher temperature possible.)