

KLINGER graphite PSM/AS

Pure exfoliated graphite with a tanged stainless steel sheet reinforcement for improved blow-out resistance and ease of handling. Due to the excellent chemical and thermal capabilities of graphite it is used extensively throughout the petrochemical and chemical industries for process duties and steam applications.

The Klinger group has been recognised as the market leader in gaskets and sealing for over a century. Our research and development laboratories have investigated over 250 different fibre forms in the search for asbestos free alternatives. The search has resulted in a range of high quality and high performance asbestos free materials that have been proven in service

General Properties

- Excellent resistance to steam
- Resistant to virtually all media
- Outstanding resistance to high and low temperature
Maximum temp. 460°C (in oxidising atmospheres)
3000°C (in non-oxidising atmospheres)
- High compressibility
- Good leakage properties
- Unlimited storage life
- Anti-stick finish on both sides

Tests and Certifications

- BAM Approval for use with oxygen 130 bar/200°C
- WRc Approval
- DIN DVGW NG-5124AT0417
- Fire safe according to API 6FB

Availability

- Sheet (m): 1.0 x 1.0*, 1.5 x 1.5
- Thickness (mm): 0.8, 1.0, 1.5, 2.0, 3.0
- Stainless Steel Insert: 304, 316*, Hastelloy B2

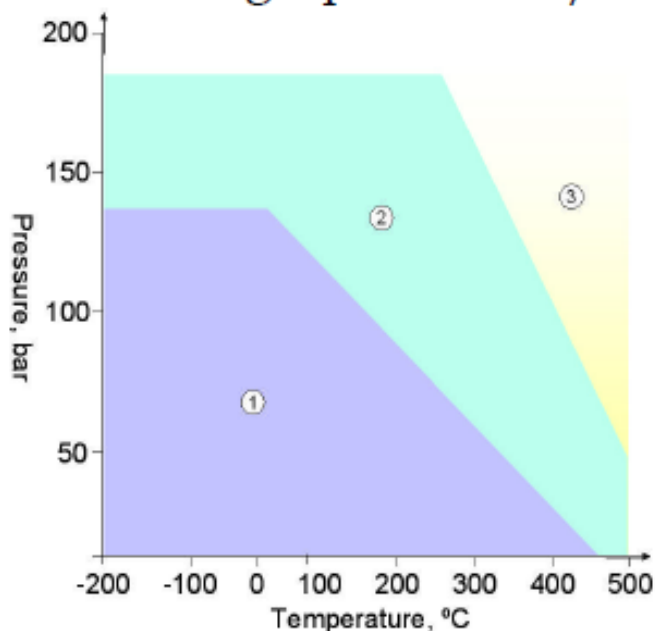
* - Denotes standard sheet size
Also available in 99.85% pure nuclear grade



RS/PA 0100/0001 RS/G 0001/0000



KLINGERgraphite PSM/ AS



Application Guidelines

1. Usually satisfactory without reference.
2. Usually satisfactory, but suggest you refer to Klinger for advice
3. Caution: May be suitable but essential that you refer to Klinger for advice.

Chemical compatibility must be considered in all cases.

Typical Specifications

Compressibility ASTM F 36 A		33-38%
Recovery ASTM F 36 A		13-18%
Stress relaxation DIN 52913	50MPa, 16h/300°C	min 48MPa
Stress relaxation BS 7531		min 38MPa
Klinger cold/hot compression, 50MPa	Thickness decrease 23°C	40%
	Thickness decrease at 300°C	1.5%
Gas leakage according to DIN 3535/6		0.8ml/min
Chlorides (soluble)		<40ppm
Fluoride and Chloride content		<200ppm
Density		1.0g/cm ³
Purity		min 98%

Typical values for 1.5mm thick material