



KLINGERsil C-8200

Specialist grade based on a unique blend of fibres with an acid resisting binder. Specifically designed for aggressive chemical environments.

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

- Resistant to most mineral acids
- Resistant to alkalis, ketones, aldehydes
- Resistant to many refrigerants
- Resistant to oils, fuels, hydrocarbons etc.
- 3xA anti-stick finish on both sides

Typical Applications

- Sulphuric Acid
- Ethylene Chloride
- Hydrochloric Acid
- Caustic duties
- Hydrocarbons
- Refrigerants

Availability

Sheeting (m): 2.0 x 1.5*, 1.5 x 1.0
Thickness (mm): 0.5, 0.75, 1.0, 1.5, 2.0, 3.0

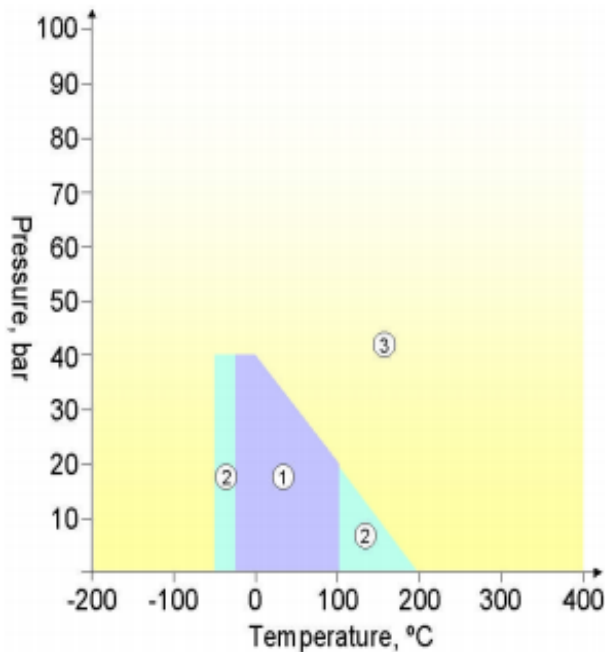
* - Denotes standard sheet size



aerospace
sector
certification
scheme

BS EN 9100:2003, ISO 9001:2008
Certificate no: FM 10571

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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		9%
Recovery ASTM F 36 A		55%
Klinger cold/hot compression (50MPa)	Thickness decrease 23°C	7%
	decrease at 300°C	17%
Gas leakage according to DIN 3535/6		<1.0ml/min
Chlorides (soluble)		150ppm
Thickness increase after fluid	H ₂ SO ₄ , 96% :18h/23°C	10%
Immersion ASTM F 146	HNO ₃ , 96% :18h/23°C	unsuitable
	H ₂ SO ₄ , 65% :48h/23°C	8%
Density		1.7g/cm ³
Average surface resistance	R _{OA} (xE9)	8.3 Ω
Average specific volume resistance	ρ _D (xE10)	1.2 Ω cm
Average power factor		17.5 kV/mm
Average dielectric strength	1kHz, ca. 3mm thick	0.27 tan δ
Average dielectric constant	1kHz, ca.3mm thick	8.4 ε _r