

BELPA® MICA

GASKET MATERIAL FOR HIGH TEMPERATURE

TECHNICAL DATA SHEET

□ COMPOSITION

BELPA® MICA for high temperatures is made of shelly Mica compressed in sheets reinforced with perforated stainless steel 316 without binder. This material is suitable as high temperatures gaskets at low pressures and specially designed for services where high temperatures combined with fluids could promote the oxidising process of materials such as graphite.

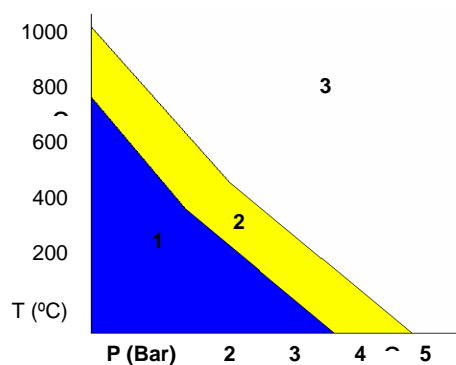
Recommended for high temperature turbines, turbochargers, heat exchangers, hot dry gas applications and on the whole for high temperature services. In automotive industry is suitable to be used in exhaust manifolds and engines. It is also recommended for chemical, petrochemical industry and refining plants where high temperature operations are carried out (mainly pyrolysis and catalysis processes),

□ TECHNICAL DATA

COLOUR	Gold
Standard sizes (mm)	1000 x 1200
Standard thickness (mm). Other upon request	1, 1.5, 2, 3
Density ($\pm 10\%$)	2.0 g/cm ³
Compressibility ASTM F-36 A	30%-40%
Recovery ASTM F-36 A	>25%
Creep Relaxation ASTM F-38	13%
Transverse tensile strength ASTM F-152	80 Mpa
Gas permeability DIN 3535 modified	<0.03 ml/min
Creep Relaxation 50 Mpa/300 °C DIN 52913	30 Mpa
Maximum Temperature	1100°C
Continuous Temperature	850°C
Maximum Pressure	10 bar

Typical properties for 2 mm thickness.

PRESSURE-TEMPERATURE DIAGRAM



P-T OPERATING GUIDELINES

- 1- Usually satisfactory to use without reference to Montero. Technical examination is normally unnecessary.
- 2- Must refer to Montero for advice. A technical examination is recommended
- 3- Area not recommended.

The P-T diagram helps the user or designer who often knows the operating temperature and pressure to carry out an initial selection of a suitable material. The P-T diagram cannot guarantee the suitability of a material for an application