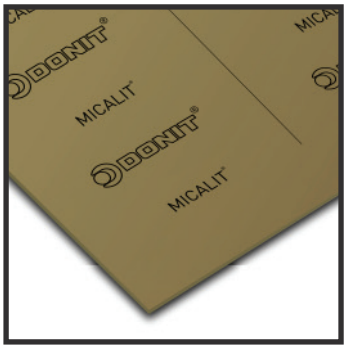
TECHNICAL DATA SHEET

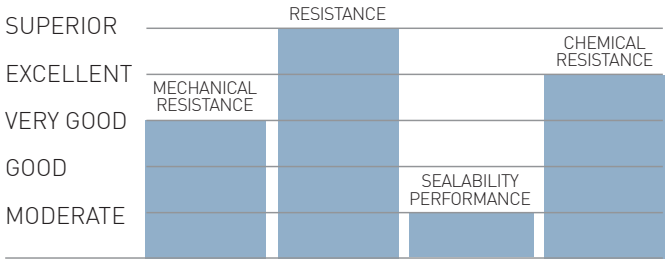
Queensland Gaskets

MICALIT

MICALIT contains a high percentage of phlogopite mica flakes, impregnated with a silicone binder. It has excellent thermal and good chemical properties, making it suitable for high temperature applications in the automotive and steel industry for exhaust systems, gas turbines, oil and gas burners, furnaces and ovens. It also offers good dielectric and low thermal conductivity properties.



PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

- CHEMICAL INDUSTRY
- PETROCHEMICAL INDUSTRY
- AUTOMOTIVE AND ENGINE BUILDING INDUSTRY
- HEATING SYSTEMS
- HIGH TEMP. APPLICATIONS

Composition	Phlogopite mica flakes, silicon resin
Color	Yellow-Brown

Contact us to discuss requirements and place your order 07 3277 3922

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TECHNICAL DATA

Typical values for a thickness of 2 mm

Mica content		%	>90
Binder content		%	<10
Density	DIN 28090-2	g/cm³	1.90
Compressibility	ASTM F36J	%	15-35
Recovery	ASTM F36J	%	30-45
Weight loss (at 800 °C)	DIN 52911	%	<5
Tensile Strength	DIN 52913		
50 MPa, 300 °C, 16 h		MPa	>20
Dielectric Strength	ASTM D149		
50 % RH, 23 °C, 24 h		kV/mm	>15
Thermal Conductivity			
at 20 °C perpendicular		W/(m·K)	0.3
at 20 °C horizontal		W/(m·K)	3.0
Compression modulus	DIN 28090-2		
At room temperature: ε_{KSW}		%	14,4
At elevated temperature: $\varepsilon_{WSW/200\ °C}$		%	6,4
Max.operating temperature		°C	950
Max operating pressure		Bar	5

Sheet dimensions	Size (mm): 1000 x 1200 Thickness (mm): 0.4 - 3.0 Other dimensions and thicknesses available on request

CHEMICAL RESISTANCE CHART

The recommendations made here are intended as a guideline for the selection of a suitable gasket type. As the function and durability of products are dependent upon a number of factors, the data may not be used to support any warranty claims. If there are specific type-approval regulations, these have to be complied with.

be complied with.

\+ Recommended
o Recommendation depends on operating conditions
\- Not recommended

Air (gas)	+	Flue gas (Exhaust/Coke oven)	+	Nitrous gases (NOx)	+	Sodium silicate (Water glass)	+
Argon (gas)	+	Fuel oil	+	Oxygen (gas)	+	Steam	+
Asphalt	+	Hydraulic oil (Mineral type)	+	Paraffin oil	+	Sulfur dioxide (gas)	+
Bio-diesel	+	Hydraulic oil (Phosphate ester-based)	+	Petroleum (Crude oil)	+	Tar	+
Borax	+	Mineral oil (ASTM no.1)	+	Potassium chloride	+	Transformer oil (Mineral type)	+
Calcium chloride	+	Motor oil	+	Potassium nitrate	+		
Carbon dioxide (gas)	+	Naphtha	+	Sodium aluminate	+		
Carbon monoxide (gas)	+	Nitrogen (gas)	+	Sodium chloride	+		

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