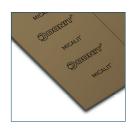
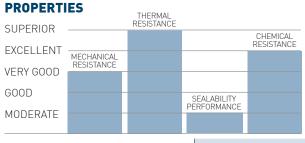


MICALIT® F contains a high percentage of phlogopite mica flakes, impregnated with a silicone binder. It has excellent thermal and good chemical properties, making it suitable for high temperature applications in the automotive and steel industry for exhaust systems, gas turbines, oil and gas burners,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





## **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

## **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: $\epsilon_{\text{KSW}}$		%	14,4
At elevated temperature: ε <sub>WSW/200°C</sub>		%	6,4
Max.operating temperature		°C	950
Max operating pressure		Bar	5

	Size (mm): 1000 x 1200
Sheet dimensions	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.

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

Air (gas)	+
Argon (gas)	+
Asphalt	+
Bio-diesel	+
Borax	+
Calcium chloride	+
Carbon dioxide (gas)	+
Carbon monoxide (gas)	-

Flue gas (Exhaust/Coke oven)	+
Fuel oil	+
Hydraulic oil (Mineral type)	+
Hydraulic oil (Phosphate ester-based)	+
Mineral oil (ASTM no.1)	+
Motor oil	+
Naphtha	+
Nitrogen (gas)	+

Nitrous gases (NOx)	+
Oxygen (gas)	+
Paraffin oil	+
Petroleum (Crude oil)	+
Potassium chloride	+
Potassium nitrate	+
Sodium aluminate	+
Sodium chloride	+

Sodium silicate (Water glass)	+
Steam	+
Sulfur dioxide (gas)	+
Tar	+
Transformer oil (Mineral type)	+

DONIT TESNIT, d.o.o.

C. komandanta Staneta 38 1215 Medvode, Slovenia Phone: +386 (0)1 582 33 00 +386 (0)1 582 32 06 +386 (0)1 582 32 08

www.donit.eu E-mail: info@donit.eu



For disclaimer please visit http://donit.eu/disclaimer Copyright © DONIT TESNIT, d.o.o.

All rights reserved

Date of issue: 09.2020 / TDS-MF-05-2015