

# 18MG.001

## Gasket

### Overview

Final Advanced Materials offers a comprehensive range of tailored thermal insulation and sealing solutions. Our technical gaskets are designed to extreme temperature, pressure and chemical conditions. Our range of gaskets covers the essential of industrial applications up to 1,200 °C.

We provide gaskets in several material families: mica, mineral fibres and graphite. Our team will guide you throughout the execution of your projects and will provide cut and assembly directly from our textile workshop.

### Selection criteria

Our design office is at your disposal to assist and guide you in the choice of product best suited to your needs. The choice of gasket depends on many factors that need to be taken into account:

- Pressure
- Chemical environment
- Temperature
- Process control
- Bolts
- Flanges
- Fluids

## Applications

- Exhaust systems
- Gas turbines
- Smoke ducts
- Every installation operating in hot atmosphere

## Our gasket range

Final Advanced Materials offers different references of gaskets to cover all industrial applications.

### Mineral fibre gaskets

- Thermal resistance up to 1,200 °C
- Lightweight, refractory and insulating material
- Good mechanical strength and dimensional stability at high temperature
- Suitable for many extreme industrial applications

### Mica gasket

- Thermal resistance up to 1,100 °C
- Excellent sealing and insulating performance under extreme conditions
- Available in several configurations (homogeneous sheets, laminates with metallic inserts)
- Custom assembly in our workshop

### Graphite gasket

- Thermal resistance up to 550 °C (operating temp, higher in peaks)
- Very good sealing and compressibility properties
- Available with metallic reinforcements (sheet, spiked, hooked, expanded metal)
- Suitable for high-pressure applications and thermal cycles

### Comparative table

Property	Mica	Mineral fibres	Graphite
Max. temperature	★★★★☆	★★★★★	★★★★☆
Pressure	★★★★☆	★★★☆☆	★★★★★
Compressibility	★★★★☆	★★★☆☆	★★★★★
Elastic recovery	★★★☆☆	★★★★★	★★★★☆
Thermal conductivity	★★★★☆	★★★★★	★★★★☆
Cutting & assembly	★★★★★	★★★★★	★★★★★

### Technical Characteristics

Property	Values	Mica	Mineral fibres	Graphite
Continuous use temperature	°C	up to 1,000	up to 1,200	up to 500
Max. pressure	Bars	up to 60	NC	up to 150
Compressibility	%	15 - 38	7 - 15	30 - 50
Elastic recovery	%	3 - 42	35 - 50	10 - 25
Loss on ignition (800 °C, 1h)	%	~ 3- 5	~ 13- 15	NC
Thermal conductivity	W/m.K	~ 0.2	0.10 - 0.12	NC
Density	g/cm <sup>3</sup>	1.65 - 2.45	0.85 - 1.1	1
Cutting & assembly		Yes	Yes	Yes

The physical properties in this documentation are provided for informational purposes only and do not constitute a contractual commitment. Please contact our technical service if you require any additional information.