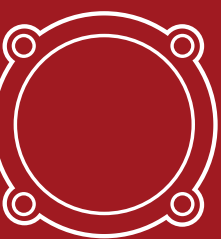




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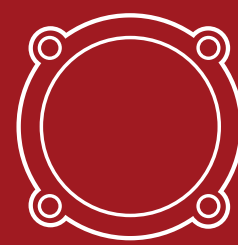
**A QUICK GUIDE TO
HIGH TEMPERATURE
GASKET MATERIALS**



OVERVIEW

High-temperature gaskets are made from specialist materials for continuous service above +500°C.

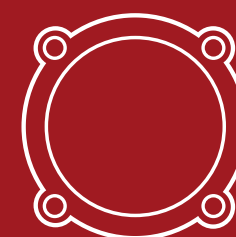
These conditions require rigid, oxidation-resistant materials, as standard high-temperature options such as graphite will degrade in the presence of oxygen.



MATERIAL PROPERTIES

MATERIAL	MAX CONTINUOUS TEMPERATURE	CHEMICAL RESISTANCE	COMPRESSIBILITY
Micatherm	~800-1000°C	Excellent	Low-Medium
Firefly	~1100-1200°C	Excellent	Medium
Thermiculite	~1000-1100°C	Excellent	Medium-High
Superwool	~1000-1200°C	Good	High

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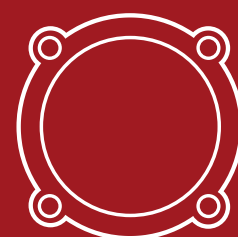
MICATHERM MATERIAL

A rigid mica-based gasket material bonded with a SS316L tanged core, offering excellent thermal stability, electrical insulation, and resistance to oxidation at high temperatures.

Best suited for

- ▶ Burner and boiler gaskets
- ▶ Electrical heating elements
- ▶ Furnace inspection doors
- ▶ Exhaust manifold joints

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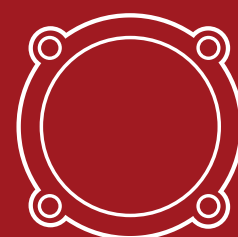


FIREFLY MATERIAL

A high-temperature flexible sealing material designed to maintain integrity in extreme heat and direct flame environments.

Best suited for

- ▶ Stove and biomass boiler doors
- ▶ Flue and chimney joints
- ▶ Incinerator access panels
- ▶ Hot gas ducting connections
- ▶ Fire-rated sealing applications



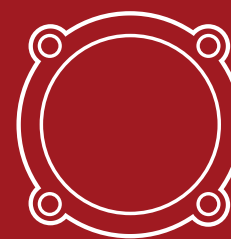
THERMICULITE MATERIAL

A vermiculite-based, asbestos-free gasket material providing excellent sealing performance under high temperatures and thermal cycling. Available reinforced with SS316L, or as filler for spiral wound gaskets.

Best suited for

- ▶ Exhaust systems
- ▶ Turbocharger gaskets
- ▶ Heat exchanger flanges
- ▶ Industrial oven doors
- ▶ High-temperature flange joints

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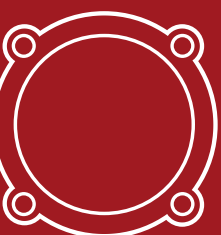
SUPERWOOL MATERIAL

A low bio-persistence fibre material offering lightweight, highly compressible insulation and sealing at elevated temperatures.

Best suited for

- ▶ Furnace doors and panels
- ▶ Kiln seals
- ▶ Expansion joints
- ▶ High-temp insulation packing
- ▶ Thermal barrier gaskets with low load requirements

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MANUFACTURING

We manufacture a range of high-temperature gaskets, often reinforced with metal composites or as filler materials for spiral wound gaskets.

CAD DESIGN



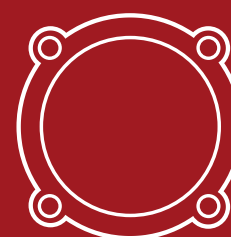
LASER CUTTER



WATER JET



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**NEED ADVICE ABOUT
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SEALING SOLUTIONS?**

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OUR TEAM**

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