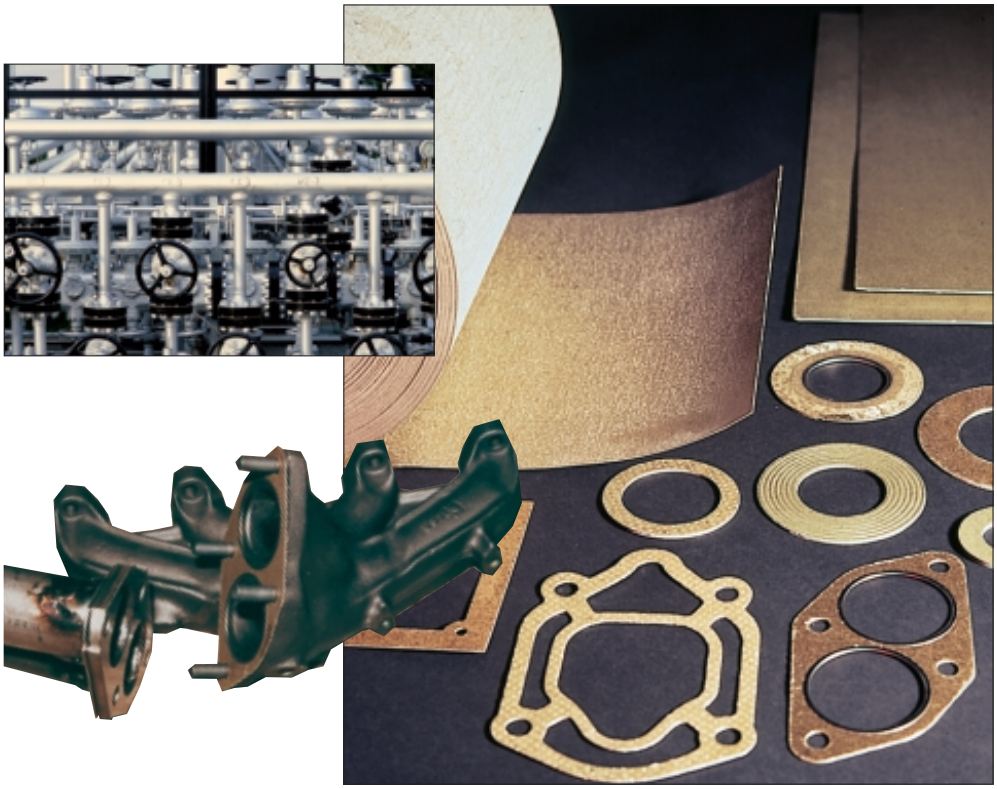
HIGH-TEMPERATURE GASKET

technical data sheet

Cogemica® Hi-Temp

High-temperature
gasket material
(up to 1000°C - 1832°F)



Cogemica® Hi-Temp has been developed for the production of high temperature resistant gaskets up to 1000°C (1832°F). It does not contain any asbestos and is inert to most chemical substances.

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APPLICATIONS

Cogemica® Hi-Temp ensures the sealing in applications where temperatures up to 1000°C *(1832°F)* can be reached. Gaskets made of Hi-temp are used in automobile exhaust manifolds, gas turbines, gas and oil burners, heat exchangers, and all other bolted flanged connections.
It is also used as a filler for spiral wound gaskets and as a material for camprofile seals.

COMPOSITION

Cogemica® Hi-Temp is a material containing a high percentage of phlogopite mica paper impregnated with a silicon binder.
Mica, an aluminosilicate of mineral origin, has a lamellar and non-fibrous structure representing a satisfactory alternative to asbestos.
This material gives Hi-Temp its thermal characteristics - weight loss at 800°C *(1472°F)* less than 5% - and its chemical resistance to solvents, acids, bases and mineral oils.

ASBESTOS FREE

AVAILABILITY

Hi-Temp 710
Sheets of 1000 x 1200 and 2400 mm *(39.37" x 47.24" and 94.49")* or strips.
Thickness: 0.1 - 3 mm *(.004" - .125")* .

Hi-Temp 730
Rolls of 200 m *(218 yds)* length.
Width of 1000 mm (.39.37")
Thickness: 0.1 - 0.63 mm *(.004" - .025")*.

Other dimensions on request.

TECHNICAL DATA

General information	**Hi-Temp 710**	**Hi-Temp 730**
Class of mica	Phlogopite	
Binder	silicon resin	
Mica content	ca 90%	
Pegged steel insert	optional	
Colour	dark green	
Application range		
Max. temperature	1000°C *(1832°F)*	
Max. pressure	5 bar *(72.5 psi)*	
Physical properties measured on 2 mm *(.08")* test pieces		
Density (IEC 371-2)	1,9 g/cm³ (±0,1) *(118 lb/ft³)*	1,7 g/cm³ (±0,2) *(106 lb/ft³)*
Tensile strength (DIN 52910)	Approx. 20 N/mm² *(2,900 psi)*	Approx.10 N/mm² *(1,450 psi)*
Compressibility (ASTM F36-J)	approx. 25 %	
Recovery (ASTM F36-J)	approx. 35 %	
Ignition loss at 800°C (DIN 52 911)	< 5 %	
Dielectric strength (IEC 243 - 23°C)	approx. 20 kV/mm *(508 V/mil)*	
Creep strength (DIN 52913)		
50 MPa, 300°C	approx. 40 N/mm² *	
7252 psi, 572°F	*(5,800 psi)* *	

* For the Hi-Temp 730, the measurement was performed with a pegged steel insert.

ISO 9002 certificate nr 94337

Data are average results of laboratory tests conducted under standard procedures and are subject to variation. These do not constitute a warranty or representation for which we assume legal responsibility.