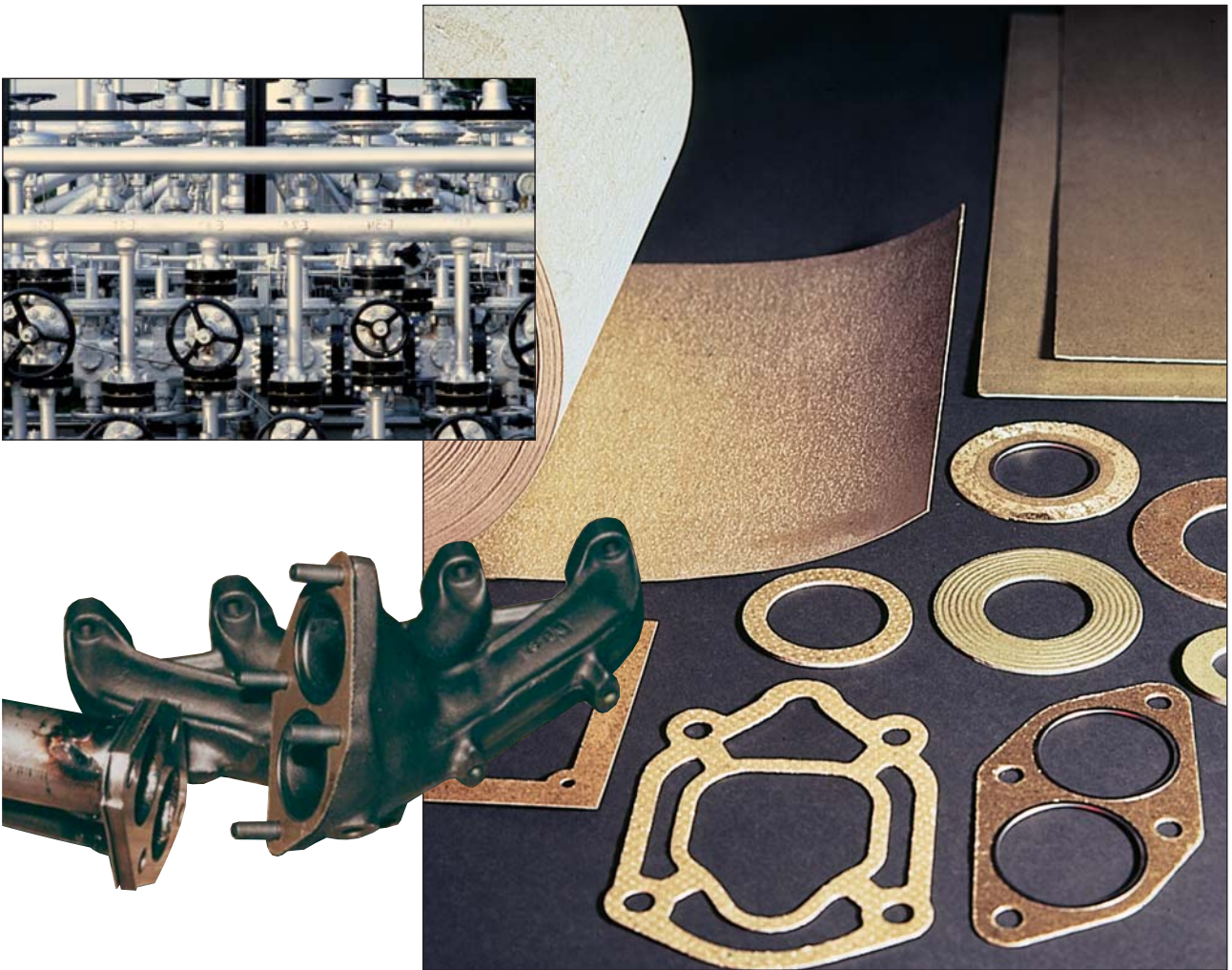


High-temperature gasket material (up to 1000°C - 1832°F)



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.

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 in other flange 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 silicone 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.

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 (0.004" - 0.125").

Hi-Temp 730 Rolls of 200 m (218 yds) length. Width of 1000 mm (39.37") Thickness: 0.1 - 0.63 mm (0.004" - 0.025").

Other dimensions on request.



TECHNICAL DATA

General information	Hi-Temp 710	Hi-Temp 730
Class of mica	Phlogopite	
Binder	silicone resin	
Mica content	ca 90%	
Colour	dark green	
Application range		
Max. temperature	1000°C (1832°F)	
Max. pressure	5 bar (72.5 psi)	
Physical properties measured on 2 mm (0.08") test pieces		
Density (IEC 371-2)	1.9 g/cm ³ (±0.1) (118 lb/ft ³)	1.7 g/cm ³ (±0.2) (106 lb/ft ³)
Tensile strength (DIN 52910)	Approx. 20 N/mm ² (2,900 psi)	Approx. 10 N/mm ² (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)	approx. 40 N/mm ² * (5,800 psi) *	
50 MPa, 300°C 7252 psi, 572°F		

*The measurement was performed on Hi-Temp with a pegged steel insert.

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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.

