

KLINGERSIL® C-8200

Specially designed for aggressive chemical environments

KLINGERSIL® C-8200 gasket material is specially designed for aggressive chemical environments and is an excellent choice for use with acids. C-8200 is resistant to most mineral acids and alkalis, ketones, and aldehydes.

This premium material is manufactured with a unique blend of glass fibers reinforced with a special acid-resistant binder.



TYPICAL VALUES REFER TO 1/16" THICK MATERIAL UNLESS NOTED

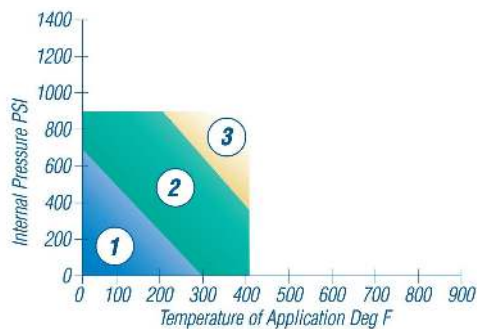
Creep relaxation ASTM F38B (1/32")	30 %
Sealability ASTM F37A (1/32")	< 0.3 ml/hr
Gas Permeability DIN 3535/6	< 0.5 ml/min
Compressibility ASTM F36J	8 - 12 %
Recovery ASTM F36J	50 % minimum
KLINGER Hot Compression Test	<i>Tested at 3625 psi gasket stress</i>
Thickness Decrease 73°F (23°C)	7 % initial
Thickness Decrease *392°F (200°C)	15 % additional
Weight Increase ASTM F146 after immersion in Fuel B, 5h/73°F (23°C)	10 % maximum
Thickness Increase ASTM F146 after immersion in	
ASTM Oil IRM 901, 5h/300°F (149°C)	0 - 5 %
ASTM Oil IRM 903, 5h/300°F (149°C)	5 - 10%
ASTM Fuel A, 5h/73°F (23°C)	0 - 5 %
ASTM Fuel B, 5h/73°F (23°C)	0 - 10 %
Dielectric Strength ASTM D149-95a	9 kV/mm
Density ASTM F1315	106 lb/ft³ (1.7 g/cc³)
ASTM F104 Line Call Out	F712100B5E22K6M5
Color	Off white

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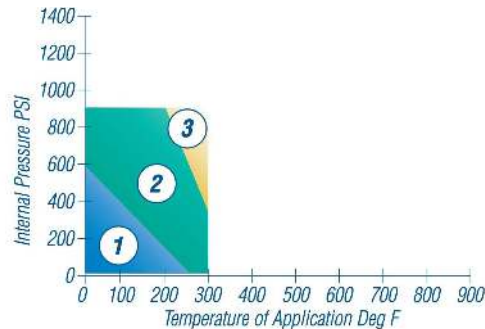
The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. However, chemical compatibility must also be considered.

pT diagram for thickness 1/16”:

LIQUIDS



GASES & STEAM



In area ① the gasket material is suitable using common installation practices subject to chemical compatibility.

In area ② appropriate measures are necessary for installation of the gasket to ensure maximum performance. Please call or refer to KLINGERexpert for assistance.

In area ③ do not install gaskets in these applications without first referring to KLINGERexpert or contacting KLINGER’s technical support service.

The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer’s control.

KLINGER Thermoseal

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