

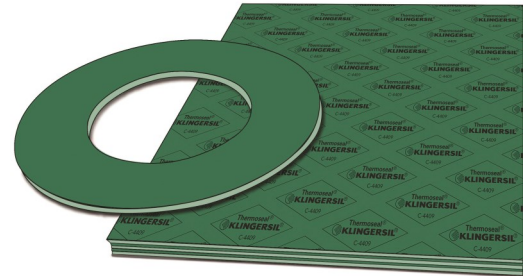
KLINGERSIL® C-4409

More safety at high thermal and mechanical stress

KLINGERSIL® C-4409 material has an expanded metal reinforcement. The galvanized low carbon steel insert makes this material suitable for conditions with high thermal and mechanical stress.

C-4409 is excellent in hot gases and can replace spiral wound gaskets in some applications.

This material is manufactured with synthetic fiber reinforced with a nitrile binder.



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

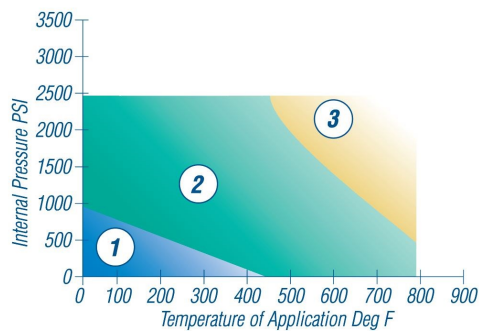
Creep relaxation ASTM F38B (1/32")	20 %
Compressibility ASTM F36J	6 - 12 %
Recovery ASTM F36J	50 % minimum
KLINGER Hot Compression Test	
Thickness Decrease 73°F (23°C)	10 % initial
Thickness Decrease 572°F (300°C)	10 % additional
Weight Increase ASTM F146 after immersion in	
Fuel B, 5h/73°F (23°C)	10 % 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)	0 - 3 %
ASTM Fuel A, 5h/73°F (23°C)	0 - 5 %
ASTM Fuel B, 5h/73°F (23°C)	0 - 5 %
Density ASTM F1315	125 lb/ft ³ (2.0 g/cc ³)
ASTM F104 Line Call Out	F712112B3E11M8
Color	Green

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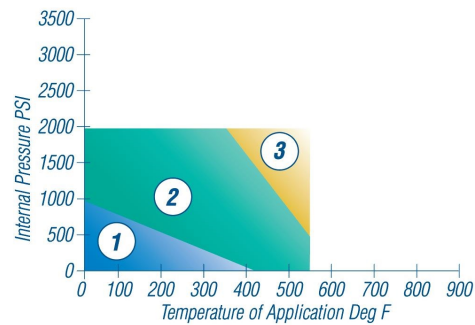
The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. However, chemical compatibility must also be considered.

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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