

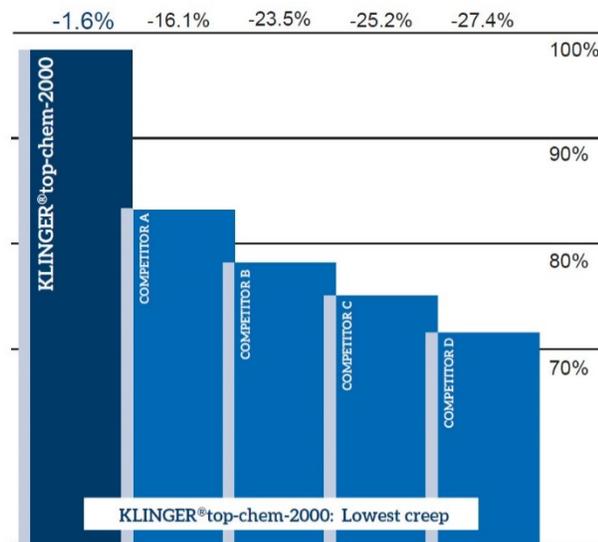
TECHNICAL BULLETIN

KLINGER®top-chem 2000: PTFE Advantages without PTFE Disadvantages

Our competitors' PTFE gaskets creep. Ours don't.

Gaskets made from KLINGER®top-chem 2000 can save maintenance time and improve plant safety. KLINGER®top-chem 2000 is a universal heavy-duty gasket material that can be used in an extremely wide range of applications in the chemical and petrochemical industries as well as in the ship building industry for chemical tanker applications. Due to its unique load-bearing properties, it is able to withstand high temperatures and pressures with very minimal creep.

For example, a comparison of the load bearing performance of KLINGER®top-chem 2000 with that of rival products shows that with a load of 7250 psi (50 MPa) and temperature of 390°F (200°C), KLINGER®top-chem 2000's relaxation is only 1.6%. This ensures that bolt forces are maintained even under severe conditions.



COMPETITOR PTFE GASKETS CREEP. KLINGER'S DON'T!

Because it is PTFE based, KLINGER®top-chem 2000 gaskets are chemically resistant in strong acidic and alkaline applications. It is Fire Safe in accordance to DIN EN ISO 10497 / API 607, Fifth Edition (modified), Oxygen tested per EN 1797, and complies with the FDA's requirements of 21 CFR 177.1550 for safe food contact.



KLINGER®top-chem 2000 gaskets can be used in an extremely wide range of applications. It is also recommended for applications where bolt load is scarce because these gaskets are easy to seal. Choose KLINGER®top-chem 2000 gaskets for a long gasket life and trouble-free sealing.

ASME Boiler and Pressure Vessel Code, Section VIII Design Factors

Material	Thickness	“m” factor	“y” stress
KLINGER®top-chem 2000	1.0 mm thick	2.8	1740 psi (12 MPa)
KLINGER®top-chem 2000	2.0 mm thick	3.2	2175 psi (15 MPa)
KLINGER®top-chem 2000	3.0 mm thick	3.8	2610 psi (18 MPa)

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.

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