

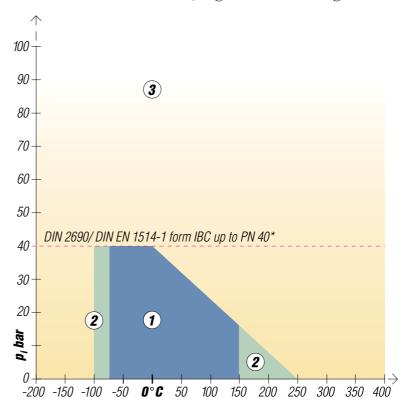
# KLINGERSIL® C-6327 Excellent at low surface loads

#### Basis:

Gasket material based on SBR-bound aramide fibres and anorganic fibres.

Thanks to the swelling in oil and fuels, it offers an excellent conformity with the flange at low surface loads.

Fields of application: Body gaskets for liquids and steams at lower pressures and temperatures and low bolt loads, e.g. transformer gaskets.

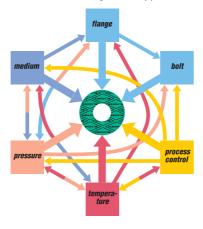


\*Gaskets according to DIN 2690 are only standardised up to PN 40 and gasket thickness 2 mm.

### The many, varied demands placed on gaskets

A common perception is that the suitability of a gasket for any given application depends upon the maximum temperature and pressure conditions. This is not the case.

Maximum temperature and pressure values alone can not define a material's suitability for an application.



These limits are dependent upon a multiplicity of factors as shown in the diagram below.

It is always advisable to consider these factors when selecting a material for a given application.

### Selecting gaskets with pT diagrams

The Klinger pT diagram provides guidelines for determining the suitability of a particular gasket material for a specific application based on the operating temperature and pressure only.

Additional stresses such as fluctuating load may significantly affect the suitability of a gasket in the application and must be considered separately. Always refer to the chemical resistance of the gasket to the fluid.

#### **Areas of Application**

- In area one, the gasket material is normally suitable subject to chemical compatibility
- 2 In area two, the gasket materials may be suitable but a technical evaluation is recommended.
- (3) In area three, do not install the gasket without a technical evaluation.



## KLINGERSIL® C-6327 Technical data



Typical values for 2 mm thickness		
Compressibility ASTM F 36J	%	25
Recovery ASTM F 36J min	%	> 45
Stress relaxation DIN 52913 50 MPa, 16 h/175°	°C MPa	25
Thickness increase ASTM F 146 oil no. 3: 5 h/150 °C	C %	45
Weight increase ASTM F 146 oil no. 3: 5 h/150 °C	C %	45
Thickness increase ASTM F 146 fuel B: 5 h/23°C	%	30
Weight increase ASTM F 146 fuel B: 5 h/23°C	%	30
Density	g/cm³	1.7

#### Important points to be observed

With heightened awareness of safety and environmental issues, reducing leaks from flanged assemblies has become a major priority for industry. It is therefore important for companies who use gaskets to choose the correct material for the job and install and maintain it correctly to ensure optimum performance.

A flanged joint will remain tight as long as the surface pressure in service is higher than the minimum surface pressure required to achieve the necessary levels of tightness but is lower than the maximum permissible surface pressure. But increasingly high demands on the tightness requirements for flanged joints (e.g. Tightness class L 0.1 in accordance with DIN 28090) necessitate the application of high loads on the gasket material in order to meet these stringent requirements.

If the gasket is to be subjected to non-static loading and stress fluctuations due to temperature and pressure cycling, it is advisable to select a gasket material which is less prone to embritlement with increasing temperatures (e.g. KLINGERgraphite laminate, KLINGERtop-chem or KLINGERtop-sil).

In cyclic loading conditions we recommend a minimum surface stress of 30 MPa and that the gasket should be as thin as is practicable.

For safety reasons never re-use gaskets.

Powerful sealing calculation

with online help on CD-ROM

### **Dimensions of the standard sheets**

Sizes

1,000 x 1,500 mm, 1,500 x 2,000 mm Thicknesses:

0.5 mm, 1.0 mm, 1.5 mm; other thicknesses on request. Tolerances:

thickness  $\pm$  10%, length  $\pm$  50 mm, width  $\pm$  50 mm

#### Surfaces

KLINGERSIL® gasket materials are generally furnished with surfaces of low adhesion. On request, graphite facings and other surface finishes on one or both sides are also available.

#### Function and durability

The performance and service life of KLINGER gaskets depend in large measure on proper storage and fitting, factors beyond the manufactor's control. We can, however, vouch for the excellent quality of our products.

With this in mind, please also observe our installation instructions.

Subject to technical alterations. Status: March 2004

### Certified according to DIN EN ISO 9001:2000

Rich. Klinger Dichtungstechnik GmbH & Co KG Am Kanal 8-10 A-2352 Gumpoldskirchen, Austria Tel ++43 (0) 2252/62599-137 Fax ++43 (0) 2252/62599-296 e-mail: mueller@klinger.co.at http://www.klinger.co.at