

KLINGERSIL® CRYOGENIC SERVICE

KLINGERSIL® compressed fiber gasket materials have no lower temperature limitation. However, for low temperature applications, the following apply:

- » The gasket must be dry and without oil or adhesive when installed and should be stored in a dry atmosphere since the fibers absorb moisture from the air.
- » The gasket should not be subjected to severe thermal expansions at the joint assembly.
- » The required flange loading must be applied at ambient temperature and must not fall below the required minimum value over the whole range of service temperature.

It is important to recognize that extreme temperatures will impact a material's mechanical properties (sometimes significantly). In particular, a gasket's ability to recover with load loss will be minimized. This is typically not of great concern in static sealing applications, however we do not recommend subjecting gaskets operating at extremely low temperatures to significant thermal or pressure cycles.

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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