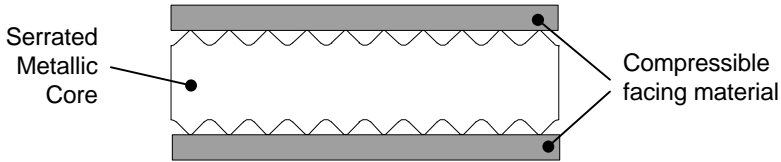


MAXIPROFILE

Introduction

The Klinger Maxiprofile is a composite gasket which utilises a serrated metal core with a soft facing material. The metal core is machined on each contact face with concentric serrations which provide high pressure areas, ensuring that the soft coating flows into any imperfections in the flange even at relatively low bolt loads. The result is a gasket which combines the benefits of soft cut materials with the advantages of seal integrity associated with metallic gaskets.



Expanded graphite is the most common facing material used for Maxiprofile gaskets. However, other materials can be used, such as PTFE for chemically aggressive duties or mica for high temperature duties.

Facing Material	Maximum Temperature
Graphite	550°C
PTFE	260°C
Mica	900°C
Klingsil C4430	250°C

Maxiprofile gaskets can also be manufactured from a range of core materials according to media compatibility and temperature considerations.

Core Material	Maximum Temperature
Stainless Steel 316L	550°C
Stainless Steel 304	550°C
Monel 400	600°C
Nickel 200	600°C
Inconel 600	900°C
Inconel 625	450°C
Incoloy 825	450°C
Hastelloy B-2	450°C
Hastelloy C-276	450°C
Titanium	350°C

MAXIPROFILE

General Properties of Maxiprofile Gaskets:

- Have a wide range of seating stresses under which the seal is effected and maintained
- Can be used when there is insufficient bolt load to seal conventional gasket materials
- Easy to handle and fit
- Suitable for a wide range of operating conditions
- The soft facing layer prevents damage to the flange
- Provide a high integrity seal including thermo-cycling and shock loading conditions
- Sealing is not sensitive to uneven bolt loading conditions
- Can be refurbished with a new facing layer and reused

Applications of Maxiprofile Gaskets:

- Heat Exchanger and Vessel applications
- High and low temperatures
- Pressures of up to 250 bar
- Low bolt loads
- Small flange widths
- Damaged flanges

Core Design

Standard core design is parallel which offers the advantages of even stress distribution across the gasket face. Convex Maxiprofiles are also available which have a reduced depth of grooves towards the profile centre. This type of profile ensures a high seating stress in the middle of the profile and is effective for low bolt load applications.