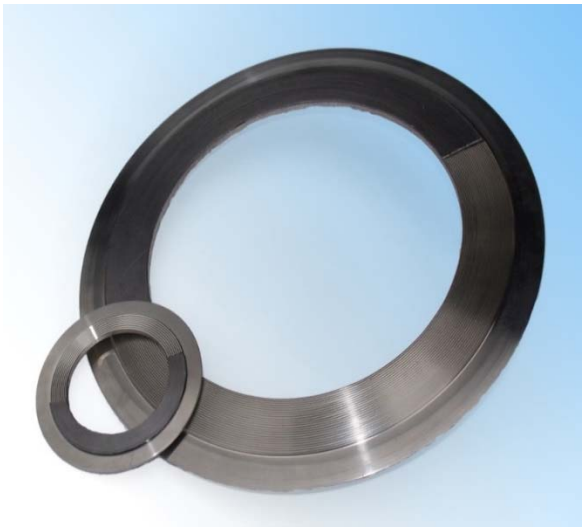
MAXIPROFILE



The Klinger Maxiprofile is a composite gasket, which utilises a serrated metal core with a soft facing material.

The metal core is a 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.

Maxiprofile gaskets are often used when there is insufficient bolt load to seal conventional gasket materials as they have a wide range of seating stresses under which the seal is affected and maintained. Also sealing is not sensitive to uneven bolt loading conditions and the soft facing layer prevents damage to the flange.

TYPICAL PROPERTIES

» High pressure gasket with wide seating stress range
» Excellent tightness even at low bolt loads
» Suitable for a wide range of operating conditions
» Provide a high integrity seal including thermo-cycling and shock loading conditions
» Easy to handle and fit
» Metallic core can be refurbished with a new facing layer and reused

APPLICATIONS OF MAXIPROFILE GASKETS

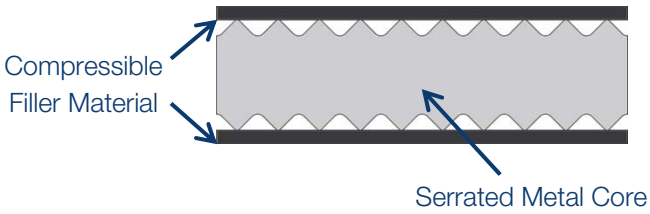
» Used for a wide range of applications including steam, oil, hydrocarbons and can also be tailored to suit more aggressive chemicals
» Used for applications requiring a high integrity seal such as chlorine
» Especially suited to use in heat exchangers and vessel applications
» High and low temperatures
» Pressures of up to 420 bar
» Small flange widths
» Damaged flanges

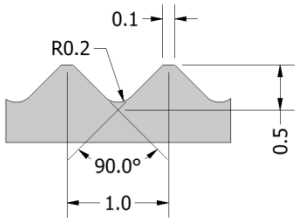
TESTS AND CERTIFICATES

» Meets the tightness requirements of TA-Luft.
» Fire safe to API 6FB

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.





FACING MATERIALS

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	1000°C
KLINGERsil C-4430	250°C

CORE MATERIALS

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

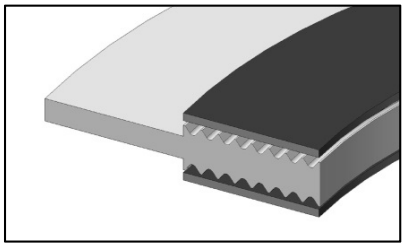
CORE MATERIAL	MAXIMUM TEMPERATURE
Stainless Steel 316L	800°C
Stainless Steel 304	650°C
Carbon Steel	500°C
Monel 400	400°C
Nickel 200	315°C
Inconel 600	1000°C
Inconel 625	650°C
Incoloy 825	450°C
Hastelloy B-2/B-3	450°C
Hastelloy C-276	450°C
Titanium Gr 2	350°C

CORE MATERIAL	MAXIMUM TEMPERATURE
Duplex UN S31803	300°C
Stainless Steel 347	870°C
Stainless Steel 321	870°C
Zirconium	500°C
Super Duplex	300°C
254 SMO	400°C
Titanium Gr7	350°C
Hastelloy C-22	450°C
Hastelloy G-31	450°C
Alloy 20	600°C

MAXIPROFILE STYLES

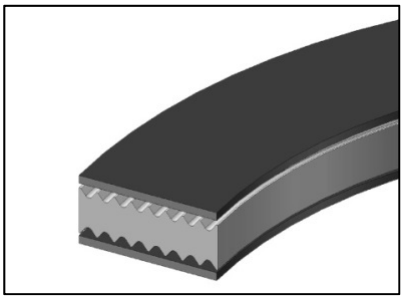
LA1

Used for Standard pipework.
Lateral profiled joint with guide ring for raised and flat face applications.



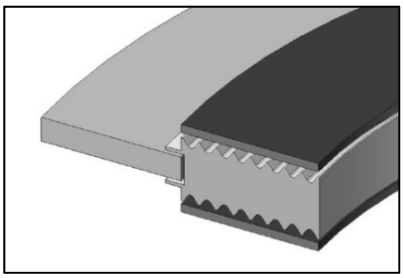
LA2

Used for vessels and heat exchangers.
Lateral profiled joint without guide ring for male and female, tongue and groove and groove flanges.



LA3

Used for large diameter standard pipework.
Lateral profiled joint with floating guide ring for raised and flat face applications.



CA1,2, & 3

Convex profiled joints in the same style as LA1, 2 and 3. The convex profile is designed to assist sealing in low bolt load applications.

HEAD OFFICE
KLINGER Ltd
Wharfedale Road
Euroway Trading Estate
Bradford BD4 6SG

Tel: 01274 688 222
Fax: 01274 688 549
www.klinger.co.uk
enquiries@klingeruk.co.uk

bsi. FM 602916 — AS/EN 9100 Series Aviation, Space and Defense
FM 10571 — ISO 9001 Quality Management
OHS 570166 — OHSAS 18001 Occupational Health & Safety Management
EMS 570165 — ISO 14001 Environmental Management

KLINGER RUNCORN
Tel: 01928 577 030
Fax: 01928 575 233

KLINGER SOUTHAMPTON
Tel: 02380 611 855
Fax: 02380 610 360

KLINGER ABERDEEN
Tel: 01224 772 962
Fax: 01224 772 953

KLINGER IMMINGHAM
Tel: 01469 575 289
Fax: 08449 676 779

KLINGER MIDDLESBROUGH
Tel: 01642 220 289
Fax: 01642 220 290

KLINGER GRANGEMOUTH
Tel: 01324 472 231
Fax: 01324 482 111