

RELY ON EXCELLENCE

Spiraltherm Mica 9596

Packings & Gaskets | Metallic gaskets



Features

Spiraltherm Mica 9596 is a flange seal made from a V-shaped profiled stainless steel tape with spiral-wound mica middle layer. The ends of the stainless steel tape are spot-welded.

Advantages

- Very high temperature stability
- Preferred use in the exhaust gas area

Operating range

Pressure: $p = 10$ bar

Temperature

- Continuous operation:
 $t = +600 \dots +900$ °C

Recommended surface roughness:
 $R_z = 12.5 \dots 50$ µm

Chemical resistance:
pH = 0 ... 14

Sealing parameters

AD Directive B7

- $k_0 \times K_D = 65 \times b_d$
- $k_1 = 1,4 \times b_d$

ASME Code

- Gasket factor: $m = 2.5$
- Minimum surface pressure:
 $y = 10,000$ psi, $y = 70$ MPa

Materials

- Filler material: 98% mica
 - Metal spiral: 1.4541 (321) or 1.4571 (316 Ti)
- Other materials upon request

Article numbers of variants

9584/... (98 % pure graphite filler)
 9594/... (99,85 % pure graphite filler)
 9594/...R (graphite filler with low sulfur < 200 ppm and water soluble sulfate < 100 ppm cont)
 9584/...TZ (with additional PTFE-sealing zone, $T < 280$ °C)
 9594/...TZ (with additional PTFE-sealing zone, $T < 280$ °C)
 9595/... (pure PTFE filler, $T < 280$ °C)
 9596/... (mica filler, $T < 900$ °C)

Forms of supply

Rings:

for tongue-and-groove flanges - 9596/NF
 for projection and recess flanges - 9596/VR
 for projection and recess flanges, with inner ring - 9596/VRl
 for raised-face flanges, with outer ring - 9596/GA
 for raised-face flanges, with inner and outer ring - 9596/GIA

Recommended applications

Industries

- Chemical industry
- Petrochemical industry
- Nuclear power stations
- Compressors
- Covers
- Hatches
- Process vessels
- Flange connections
- Pipe connections
- Maintenance seals

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Product variants

Spiraltherm Mica 9596/GA

Spiral wound gasket with outer guide ring.
Standard type for raised faced flanges.

Spiraltherm Mica 9596/VR

Spiral wound gasket without inner ring or outer guide ring.
Mainly used for male and female flanges or projection and recess flanges.

Dimensions

- Standard dimensions as per DIN EN 1514-2 or ASME B16.20

Spiraltherm Mica 9596/GIA

Spiral wound gasket with inner and outer guide ring offers the best performance in raised faced and flat flanges

The inner ring is used to:

- avoid over-compression at elevated seating loads in high pressure service
- reduce turbulence within the flange area and protects against corrosion or erosion
- improve the load distribution over the gasket

Spiraltherm Mica 9596/VRI

Spiral wound gasket with inner ring.

Mainly used for male and female flanges or projection and recess flanges.

An inner ring is necessary as a compression stop.

Spiraltherm Mica 9596/NF

Spiral wound gasket without guide ring or inner ring.

This style of gasket is used in load-bearing flange configurations, such as tongue and groove flanges.

Standard dimensions according to EN/ASME.