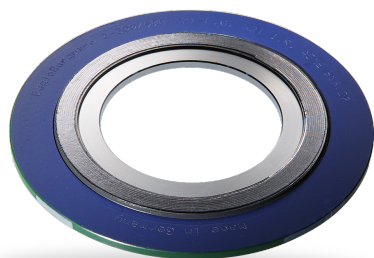


RELY ON EXCELLENCE

Spiraltherm Graphite 9584

Packings & Gaskets | Metallic gaskets



Features

Spiraltherm Graphite S 9584 is a flange seal made from a V-shaped profiled stainless steel tape with spiral-wound graphite middle layer (purity >98 %). The ends of the stainless steel tape are spot-welded.

Advantages

- Universal industrial grade
- Easy to handle

Operating range

Pressure: $p = 400$ bar Temperature

- Continuous operation:
 $t = -200\text{ °C} \dots +550\text{ °C}$
- Inert environment: Contact us to discuss higher temperatures

Recommended surface roughness:

$R_z = 12.5 \dots 50\text{ }\mu\text{m}$

Chemical resistance: $\text{pH} = 0 \dots 14$

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:
 $y = 10,000\text{ psi}, y = 70\text{ MPa}$

Materials

- Filler material: 98% pure graphite
 - Metal spiral: 1.4541 (321) or 1.4571 (316 Ti)
 - 9584/...R variants: Sulfur content <100 ppm, soluble sulfates <100 ppm
- Other materials upon request

Standards and approvals

- TA Luft (9584/GIA only)
- BAM (on request)
- Fire-safe API 607 (9584/GIA only)

Notes

Spiraltherm Graphite 9584 gaskets filled with high quality graphite are Fire Safe.

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, $T < 280\text{ °C}$)
 9594/...TZ (with additional PTFE-sealing zone, $T < 280\text{ °C}$)
 9595/... (pure PTFE filler, $T < 280\text{ °C}$)
 9596/... (mica filler, $T < 900\text{ °C}$)

Forms of supply

Rings:

for tongue-and-groove flanges - 9584/NF (standard), 9584/NFR (sulfur content <100 ppm)

for tongue-and-groove flanges, with compression curve - 9584/NFS (standard), 9584/NFSR (sulfur content <100 ppm)

for projection and recess flanges - 9584/VR (standard), 9584/VRR (sulfur content <100 ppm)

for projection and recess flanges, with inner ring - 9584/VRI (standard), 9584/VRIIR (sulfur content <100 ppm)

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for raised-face flanges, with outer ring -
9584/GA (standard), 9584/GAR (sulfur
content <100 ppm)
for raised-face flanges, with inner and outer
ring - 9584/GIA (standard), 9584/GIAR (sulfur
content <100 ppm)
Manhole Gasket:
9584/MH (standard), 9584/MHR (sulfur
content <100 ppm)

Recommended applications

Industries

- Chemical industry
- Petrochemical industry
- Power stations
- Flange connections
- Pipe connections
- Valves
- Heat exchangers
- Covers and hatches
- Reactor vessels
- Process vessels
- Maintenance seals

Product variants

Spiraltherm Graphite 9584/GA

Spiral wound gasket with outer guide ring.
Standard type for raised face flange
connections.

Spiraltherm Graphite 9584/GIA

Spiral wound gasket with inner and outer
guide ring. This style offers the best
performance for raised-face flange
connections.
The inner ring is used to provide:
- Avoid over-compression at elevated
seating loads in high pressure service
- Reduced turbulence within the flange area
and protects against corrosion or erosion
- Improvement of the load distribution over
the gasket

Spiraltherm Graphite S 9584/NF

Spiral wound gasket without guide 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.

Spiraltherm Graphite 9584/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.

Dimensions

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