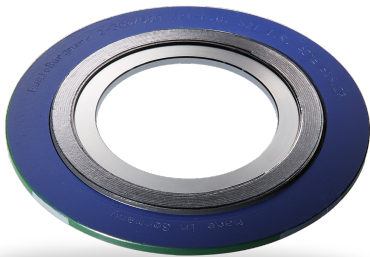


RELY ON EXCELLENCE

Spiraltherm Graphite 9594

Packings & Gaskets | Metallic gaskets



Features

Spiraltherm Graphite H 9594 is a flange seal made from a V-shaped profiled stainless steel tape with spiral-wound graphite middle layer (purity >99.85 %). The ends of the stainless steel tape are spot-welded.

Advantages

- Suitable for nuclear applications
- High purity graphite

Operating range

Pressure: $p = 400$ bar

Temperature

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

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:
99.85 % pure graphite
 - Metal spiral:
1.4541 (321) or 1.4571 (316 Ti)
 - 9594/...R variants:
Sulfur content <100 ppm, soluble sulfates <100 ppm
- Other materials on request

Standards and approvals

- BAM (on 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 - 9594/NF (standard), 9594/NFR (sulfur content <100 ppm)

for tongue-and-groove flanges, with compression curve - 9594/NFS (standard), 9594/NFSR (sulfur content <100 ppm)
 for projection and recess flanges - 9594/VR (standard), 9594/VRR (sulfur content <100 ppm)

for projection and recess flanges, with inner ring - 9594/VRI (standard), 9594/VRIR (sulfur content <100 ppm)

for raised-face flanges, with outer ring - 9594/GA (standard), 9594/GAR (sulfur content <100 ppm)

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for raised-face flanges, with inner and outer ring - 9594/GIA (standard), 9594/GIAR (sulfur content <100 ppm)

Manhole Gasket:
9594/MH (standard), 9594/MHR (sulfur content <100 ppm)

Recommended applications

Industries

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

Dimensions

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