

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

- $k_0 \times KD = 65 \times bd$
- $k_1 = 1,4 \times bd$

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 upon request

Standards and approvals

- BAM (on request)
- EG 1935/2004
- FDA

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