



Leader Spiral Wound Gasket Type S

High Integrity SPW Gaskets

DESCRIPTION

Designed more than 100 years ago, Spiral Wound Gaskets (SWG's) are widely used as high integrity and sustainable gaskets. The sealing element is manufactured from preformed, V-shaped metallic windings with intermediate soft sealing fillers. As standard metallic winding material SS316L is used and for the soft fillers, graphite or PTFE. Due to the gasket construction, SWG's offer high compressibility and recovery. Leader Style S SWG's are provided with a sealing element only. The S gaskets are suitable for ASME B16.5 tongue and groove or male / female (Spigot to Recess) flanges up to 2500lbs. They are mostly used in

pumps and valves.

APPLICATION

(Petro-) Chemical Industry, Steam, On- and Offshore exploration, pipeline systems, pressure vessels and exchangers.

CHEMICAL COMPATIBILITY

Spiral Wound Gaskets can be used in a wide variety of media, i.e. a pH range varying from 0-14. Application/compatibility guide is available on request. Temperature from -450 °F up to 850 °F (steam up to 1200 °F)

DELIVERY OPTIONS

Standard style S gaskets are normally manufactured according to particular

customer drawings, or by given sizes. Gaskets can be manufactured in a thickness of .125" / .175" / .250" / 285". Different materials are available.

TEMPERATURE

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SEALING CHARACTERISTICS

- low leak rate

TECHNICAL DATA

| | |
|---|-----------------------|
| max Pressure [psi] | ASME B16.5 2500 Class |
| Minimum initial stress [DIN E 2505 part 2] [N/mm ²] | 50 |
| Maximum initial stress [DIN E 2505 part 2] [N/mm ²] | 300 |
| M-Value | 3 |
| Y- Value [psi] | 10000 |
| Gasket required flange roughness [Ra micron] | 3,2-6,3 |
| Gasket required flange roughness [RMS] | 125-250 |
| Advice Seating stress at assembly [psi] | 12500 |
| ROTT [Gb] | 926 |
| ROTT [a] | 0.341 |
| ROTT [Gs] | 2.9 |

SOFT FILLER MATERIALS

| | Identification | Color coding | Temperature Range |
|----------|----------------|--------------------|-----------------------|
| | ASME B16.20 | ASME B16.20 | Degrees C. |
| Graphite | FG | Gray stripe | - 250 / + 450 (+ 550) |
| PTFE | PTFE | White stripe | -240 / +260 |
| Ceramic | CER | Light green stripe | - 50 / + 1000 |

LOCATIONS

905 W.13th Street DEER PARK, TX 77536, USA GLOBAL HEADQUARTERS

8622 South Choctaw Drive BATON ROUGE, LA, USA 70815

Pšurnovická cesta 1026, 01401 BYTCA, Slovak Republic EUROPE HEADQUARTERS

PHONE

+1 281 542 0600

+1 225 275 8000

+421 41 553 3853

FAX

+1 281 542 5552

+1 225 273 9073

+421 41 553 2895

SOFT FILLER MATERIALS

| | | | |
|------|------|-------------------|--------------|
| Mica | MICA | Light blue stripe | - 50 / + 900 |
|------|------|-------------------|--------------|

METALLIC MATERIALS

| | Identification | Color coding | Temperature Range |
|------------------------|----------------|--------------|-------------------|
| | ASME B16.20 | ASME B16.20 | Degrees C. |
| Carbon Steel | CRS | Silver | - 25 / + 500 |
| SS304(L) | 304(L) | Yellow | - 200 / + 900 |
| SS316(L) | 316(L) | Green | - 100 / +550 |
| SS321 | 321 | Turquoise | -200/+550 |
| SS347 | 347 | Blue | -200/+550 |
| Duplex (ASTM A182-F51) | 31803 | No colour | -60/+300 |
| Avesta 254 SMO (6Mo) | 31254 | No colour | -100/+550 |
| Carpenter 20 CB3 | A20 | Black | -100/+500 |
| Nickel 200 | NI200 | Red | -100/+450 |
| Nickel 201 | NI201 | Red | -100/+550 |
| Monel® / Alloy 400 | MON | Orange | -50/+500 |
| Inconel® / Alloy 600 | INC600 | Gold | -100/+650 |
| Inconel® / Alloy 625 | INC625 | Gold | -100/+800 |
| Inconel® / Alloy X-750 | INX | No colour | -100/+700 |
| Incoloy® / Alloy 800 | IN800 | White | -100/+550 |
| Incoloy® / Alloy 825 | IN825 | White | -200/+800 |
| Hasteloy® / Alloy B2 | HAST B | Brown | -100/+500 |
| Hasteloy® / Alloy C276 | HAST C | Beige | -100/+600 |
| Titanium | TI | Purple | -100/+350 |
| Zirconium | ZIRC | No colour | -50/+900 |

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