

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, PTFE or LeaderTHERM NXT 1000 (high temp. modified Phlogopite). 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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-450 °F up to 850 °F (steam up to 1200 °F).

APPROVALS & CERTIFICATES

- EN10.204 3.1

SEALING CHARACTERISTICS

- low leak rate
- Firesafe
- Design suitable for fluctuating temperatures and pressures
- broad chemical resistance (pending on the metallic materials and filler)
- wide seating stress range
- blow out safe
- non-sticking to the flanges

TECHNICAL DATA

max Temperature [°F]	See material table below
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

LOCATIONS

850 Sense Road LA PORTE, TX 77571, USA GLOBAL HEADQUARTERS

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TECHNICAL DATA

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
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
Hastelloy® / Alloy B2	HAST B	Brown	-100/+500
Hastelloy® / Alloy C276	HAST C	Beige	-100/+600
Titanium	TI	Purple	-100/+350
Zirconium	ZIRC	No colour	-50/+900

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