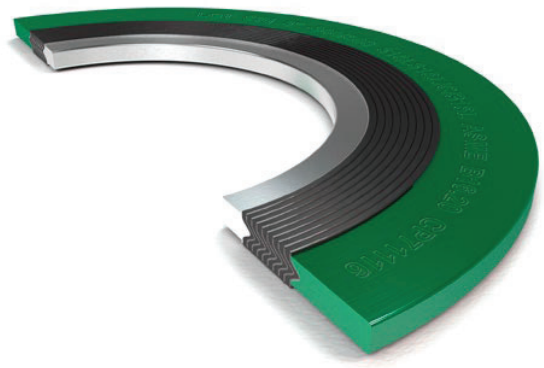
Leader Spiral Wound Gaskets

HIGH INTEGRITY SWG GASKETS

The spiral wound gasket (SWG) is without any doubt one of the most widely used metal/soft-material gaskets. The design is based on an existing concept which has proven its excellent properties over many years.
The basic principle of the spiral wound gasket consists of alternating layers of V-shaped metal coils and soft, non-metallic filling material. The first and the last coils consist only of metal in order to reinforce the spiral on the inner and outer diameters.
This ‚sandwich' construction, in conjunction with the special V-shape of the spiral metal band and the properties of the filling material make the spiral wound gasket ideal for applications with high Temperature differences and associated voltage differences, joint relaxation and flange twists.



Applications

- Piping (EN/ASME)
- TA-Luft
- In the event of Temperature fluctuations
- Tongue and groove connections
- Heat exchangers
- Pressurised equipment
- Steam boilers
- High pressures

SURFACE PRESSURE LIMITS			
STYLE	TEMP. °C	min. MPa	max. MPa
S/SR/SRI			
Graphite filler	20	70	300
	300	70	145
SI/SRI			
Graphite filler	20	70	300
	300	70	250
S/SR			
PTFE filler	20	70	175
	200	70	160
SI/SRI			
PTFE filler	20	70	300
	200	70	280

Latest version of productdatasheet available on www.leadergt.com

Properties

Outer ring
- Centring of the gasket
- Prevents blow-out
- Increase in mechanical strength
- Labelling
- Material: steel, stainless steel, non-ferrous metals

Inner ring
- Prevention of turbulence
- Strengthening of the gasket
- Protection against contamination of the medium
- Indispensable for PTFE filler
- Required for vacuum

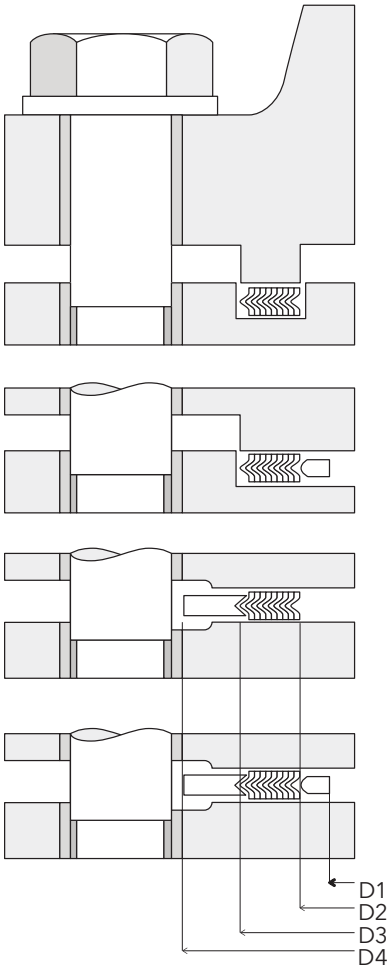
Spirals
- 3.2 mm/4.5 mm/6.4 mm thickness
- Filler: Graphite, PTFE, Leadertherm NXT 1000
- Metal band: in various grades
- Actual sealing function
- Forms: round or oval

Pressure
- Max. 200 bar, depending on the installation and surface pressure

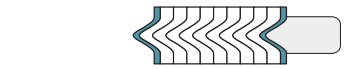
Approvals

BAM · NACE · fire safe · Blow-Out certified

STYLES OF LEADER SPIRAL WOUND GASKETS

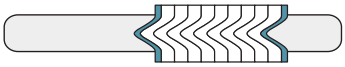


Style S without inner and outer ring



Style SI with inner ring

Style SR with outer ring



Style SRI with inner and outer ring

NON-METALLIC FILLERS - ASME B16.20						
Material	Minimum °F	Minimum °C	Maximum °F	Maximum °C	Abbreviation	Guide Ring Color Code
Flexible Graphite	-350	-212	975	510	F.G.	Gray
PTFE	-400	-240	500	260	PTFE	White
LeaderTHERM NXT 1000	-350	-212	1800	1000	LT	Light Blue

COLOR CODE CHART - ASME B16.20						
Material	Minimum °F	Minimum °C	Maximum °F	Maximum °C	Abbreviation	Guide Ring Color Code
304 Stainless Steel	-320	-195	1400	760	304	Yellow
316L Stainless Steel	-328	-200	1600	870	316L	Green
317L Stainless Steel	-150	-100	1600	870	317L	Maroon
321 Stainless Steel	-320	-195	1600	870	321	Turquoise
347 Stainless Steel	-320	-195	1600	870	347	Blue
Carbon Steel	-40	-40	1000	540	CRS	Silver
20Cb-3 (Alloy 20)	-300	-185	1400	760	A-20	Black
HASTELLOY® B 2	-300	-185	2000	1090	HAST B	Brown
HASTELLOY® C 276	-300	-185	2000	1090	HAST C	Beige
INCOLOY® 800	-150	-100	1600	870	IN 800	White
INCONEL® 600	-150	-100	2000	1090	INC 600	Gold
INCONEL® X750	-328	-200	1500	820	INX	No Color
MONEL® 400	-200	-130	1500	820	MON	Orange
Nickel 200	-320	-195	1400	760	NI	Red
Titanium	-320	-195	2000	1090	TI	Purple

Other materials available on request

* the information listed here is not claimed to be exhaustive and serves only as a guide; despite careful content control we assume no liability or guarantee for the topicality, correctness and completeness of the information provided

** (to 1000 °F only after consulation)