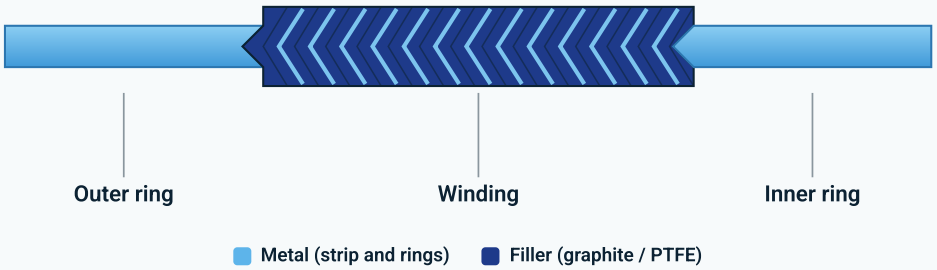
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Revoseal SWG Data Sheet

Spiral wound gasket – metal strip and filler wound in a spiral.



PRODUCT DESCRIPTION

Spiral wound gaskets combine metal and filler material. As a rule, a metal strip – usually stainless or high-carbon steel – is wound outward in a circular spiral (other shapes are possible), with the filler, generally flexible graphite, wound in the same way. This produces alternating layers of filler and metal: the filler acts as the sealing element, while the metal provides structural support. Spiral wound gaskets have proven reliable in most applications and require lower clamping forces than solid metal gaskets.

KEY BENEFITS

- **Ideal for the oil and gas industry**
- **Excellent mechanical behaviour even at high temperatures and pressures**
- **Wide choice of designs, alloys and fillers**

TYPES

TYPE	CROSS-SECTION	DESIGNATION
SIA		Spiral wound gasket with inner and outer ring, graphite or PTFE filler
SI		Spiral wound gasket with inner ring, graphite or PTFE filler
SA		Spiral wound gasket with outer ring, graphite or PTFE filler
S		Spiral wound gasket without inner and outer ring, graphite or PTFE filler (e.g. for tongue and groove)

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Technical data

Materials, operating limits and approvals

Filler material	
Graphite	T max. 550 °C, p max. 250 bar
Virgin PTFE	T max. 250 °C, p max. 100 bar
Mica	T max. 1000 °C, p max. 120 bar
Metal parts	
Stainless steel 304, 316, 316L	T min. −80 °C; T max. +500 °C
Stainless steel 321, 316Ti, 347	T min. −250 °C; T max. 550 °C
Alloy 400, 600, 625, 800, X750	T min. −130 °C; T max. 600–950 °C
Hastelloy C276, B2	T min. −200 °C; T max. 450 °C
Density	0.7–0.8 g/cm³
Graphite standard grade	Ash content ≤ 2 % (DIN 51903); graphite grade ≤ 0.15 % on request Chloride content ≤ 50 ppm (DIN 28090-2) Sulphide content < 500 ppm · corrosion inhibitor
Flange surface finish	125–250 AARH
Gasket factors (ASTM)	m factor 3 y factor 10,000 psi (68.96 MPa)
Approvals	Fire Safe API 6FB, 3rd edition TA Luft VDI 2440

All data are typical values and do not replace a case-specific design. Subject to technical change.