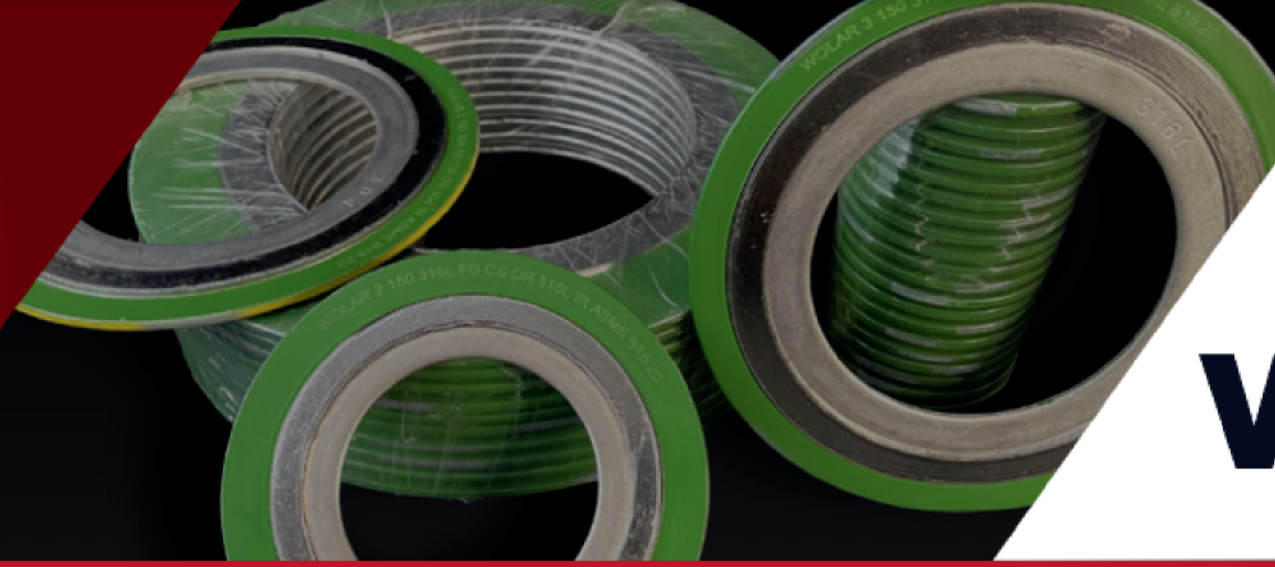


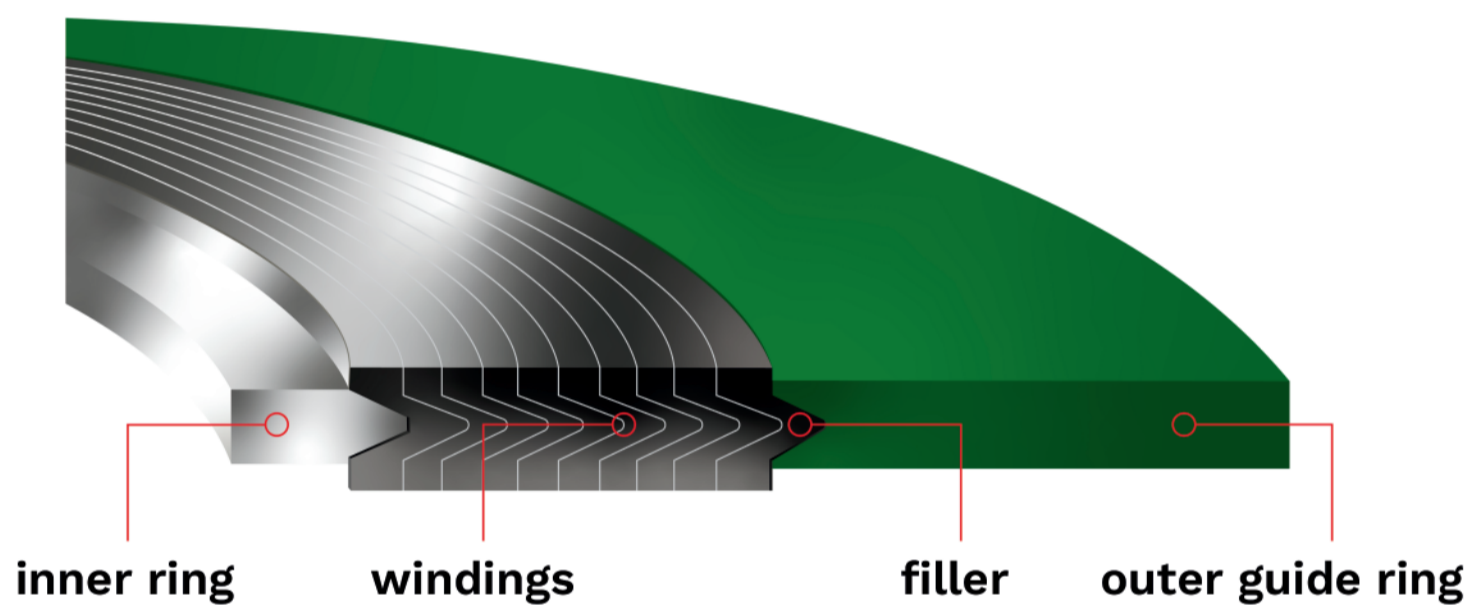
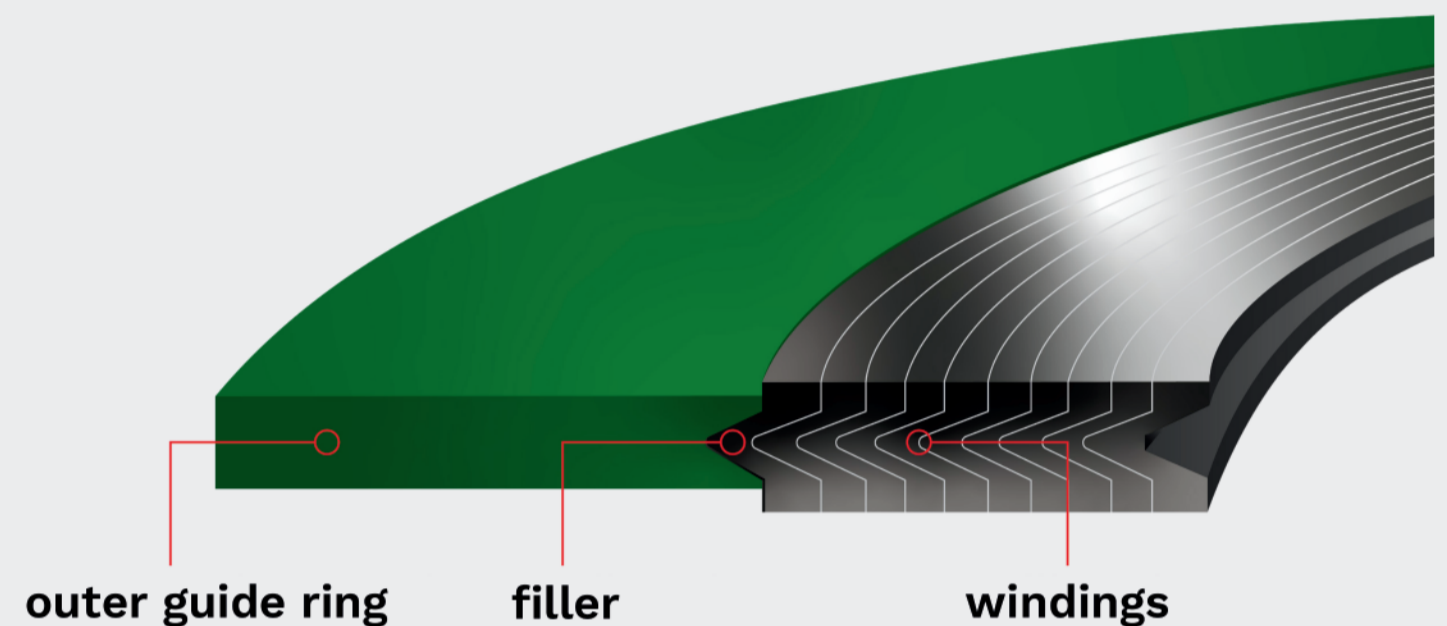
Spiral Wound Gaskets



Description

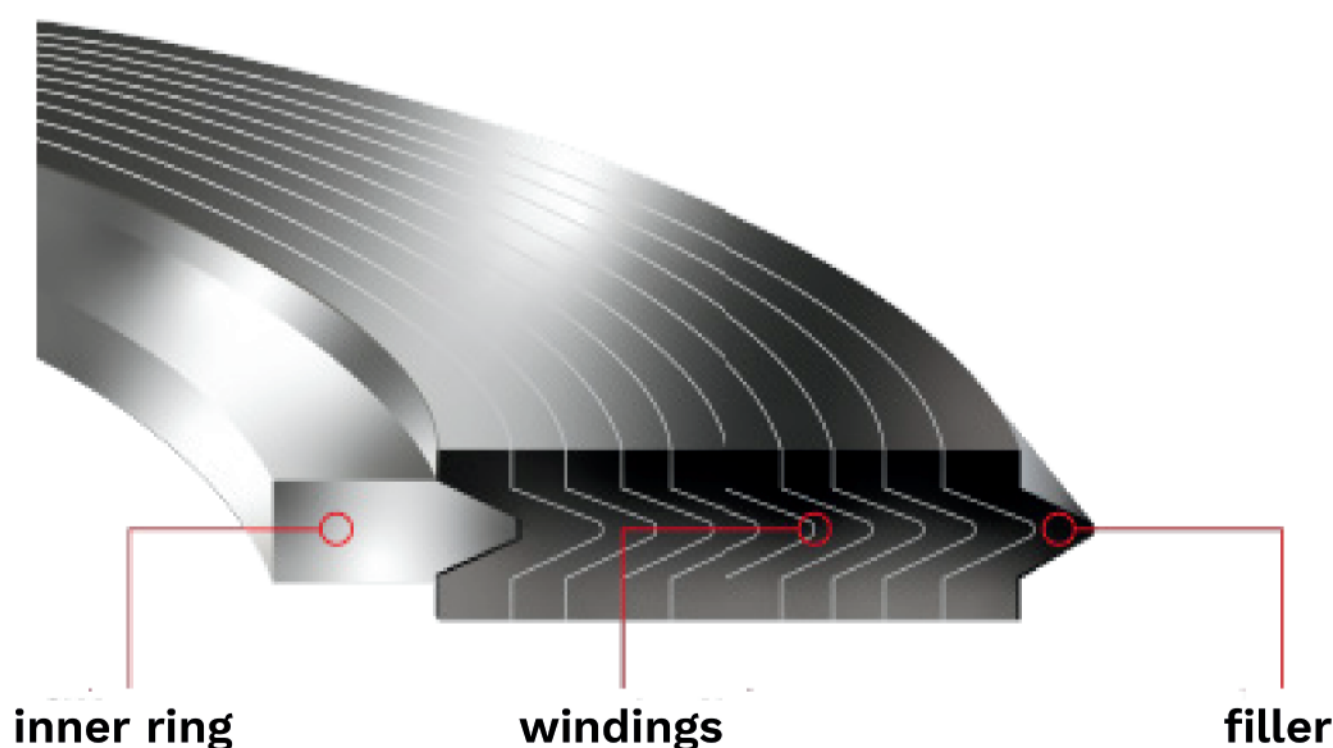
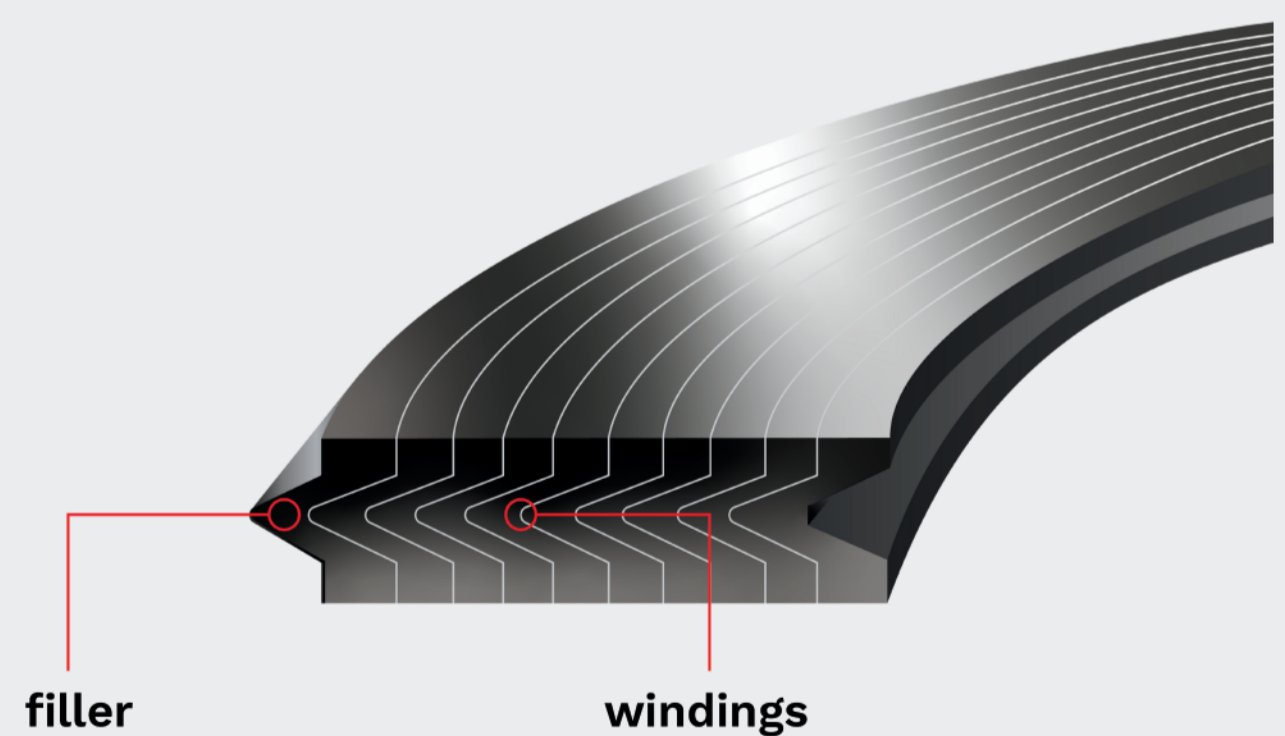
Designed in 1912 and in use for more than a century, Spiral Wound Gaskets are the “go-to” gasket for effective and sustainable sealing in the toughest of applications. Originally designed to meet the rigors of the refining Industry, they have become the industry standard for sealing and are manufactured in accordance with ASME B16.20.

Wolar’s SWG incorporates an outer guide ring designed to center the sealing element properly when using raised-face flanges. The sealing element consists of V-shaped metal windings with a layer of filler material between each winding. Wolar stocks SWGs in 304SS and 316SS windings with a flexible graphite filler, and carbon steel outer guide rings.



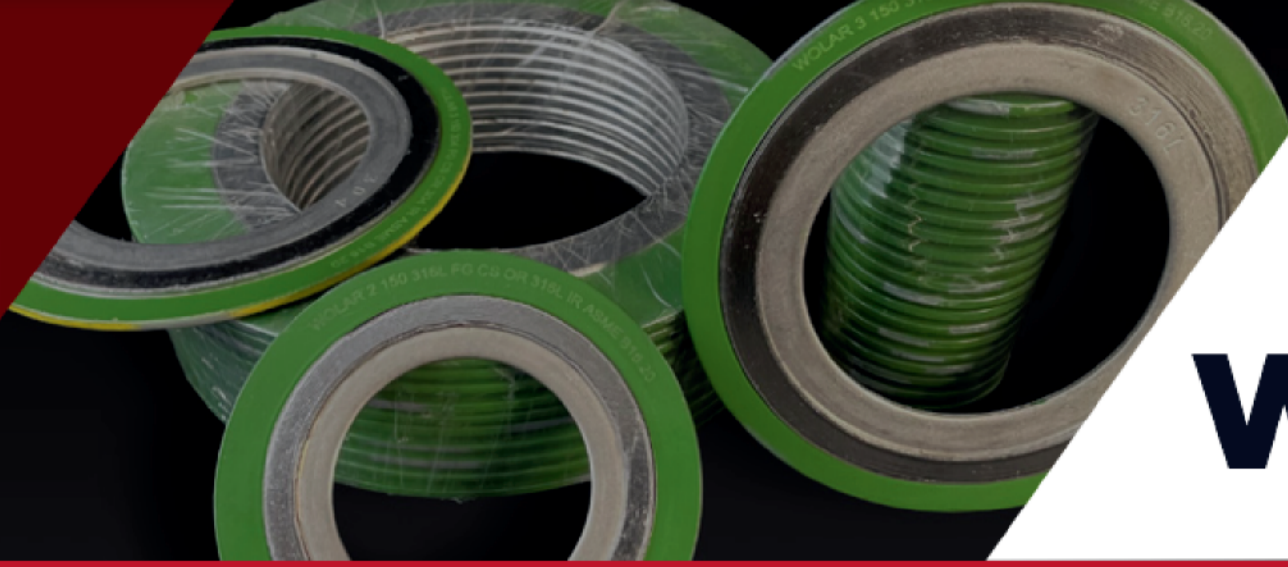
Wolar’s SWGI design is identical to the SWG, except it includes an inner ring that matches the material of the windings. Inner rings are specified in ASME B16.20, and provide several functional benefits to a SWG. Inner rings help reduce baffling at the ID, aid in the prevention of windings buckling, can act as a barrier for heat and corrosion to protect windings, and provide an additional compression limiter to prevent over-torquing the sealing element.

The WG design is comprised of the windings and filler material only. The Windings Only design is primarily used in tongue and groove flanges. The enclosed sealing area helps prevent the windings from springing under compression. Multiple metal and filler options available to meet the needs of your application.



The WGI design is comprised of the windings and filler material but also is supported at the ID with an inner ring. As with the SWGI design, the metal of the Inner ring will typically match the material of the windings. This design will be seen most likely in the male and female flange connection where the male flange component encapsulates the windings to prevent springing.

Spiral Wound Gaskets



Available Gasket Materials

METAL WINDING STRIP	FILLER MATERIAL	GUIDE RING MATERIAL
Stocked	Stocked	Stocked
•Stainless Steel Type 304 316L	•Flexible Graphite	•Carbon Steel
Made to Order	Made to Order	Made to Order
•Stainless Steel Type 304L 316 Ti 321 347	• Mica • Ceramic • PTFE	•Stainless Steel Type 304 304L 316 316L 316Ti 321 347
•Alloy 20 • Monel • Titanium •Nickel 200 • Inconel Type 600 625 X-750		• Inconel Type 600 625 • Monel • Titanium • Nickel • Incoloy Type 800 825
• Hastelloy Type B-2 B-3 C267		•Alloy 20 • Hastelloy Type B-2 B-3 C276
• Incoloy Type 800 825		
• Duplex		
• Zirconium		
• Copper		

TECHNICAL DATA

max Temperature [°F]	See material table below
max Pressure [psi]	ASME B16.5 2500 Class
M-Value	3
Y-Value	10,000
Gasket required flange roughness [RMS]	125-250

SOFT FILLER MATERIALS

	Identification	Color coding	Temperature Range
	ASME B16.20	ASME B16.20	Degrees F.
Graphite	FG	Gray stripe	-400/+850 (+1050)

METALLIC MATERIALS

	Identification	Color coding	Temperature Range
	ASME B16.20	ASME B16.20	Degrees F.
Carbon Steel	CRS	Silver	-13 / +932
SS304(L)	304(L)	Yellow	-392 / +1652
SS316(L)	316(L)	Green	-212 / +1022