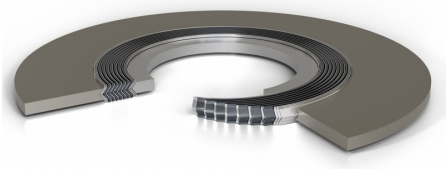
PLANISTEEL SW G

Composition

Spiral wound gaskets are manufactured by coiling a V-profile metal strip together with a soft filler material, forming a flexible and pressure-resistant sealing element. The metal strip provides structural integrity and elasticity, while the filler ensures effective sealing performance. To enhance stability, control compression, and facilitate installation, the winding is supported by an outer guide ring and typically by an inner ring for RF flanges. Spiral wound gaskets for LMF flanges should be supported by an inner ring, although this is not mandatory, while those for LTG flanges are supplied without rings. The metal used for the inner rings matches that of the metal strip, whereas the guide ring material is user-selected. The stamped markings and color codes on the spiral wound gasket comply with ASME B16.20.

- **Metal strip:** any type of steel or alloy is available
- **Filler:** industrial graphite 98% Carbon content



Characteristics

Planisteel SW G spiral wound gaskets are primarily manufactured in accordance with ASME B16.20, ASME B16.47 Series A and B, EN 12560-2, and EN 1514-2 standards, but gaskets made to other international standards or customized specifications are also available.
Planisteel SW G spiral wound gaskets, specifically designed and manufactured using carefully selected materials and tightly controlled processes, ensure maximum safety and freedom from contaminants, offering high reliability even in the most critical environments.

Performance Specifications	UM	Value
Minimum temperature	°C	-200
Maximum temperature with mild oxidizers	°C	450
Maximum Temperature	°C	550 see note
Maximum Pressure	bar	according to the gasket rating
Graphite Chemical Resistance	pH	0 ÷ 14
Min. Gasket Seating Stress - Sgmin-$S_{L=0.001}$	MPa	42
Min. Gasket Operating Stress - Sgmin-O	MPa	30
Max Gasket Operating Stress - Sgmax	MPa	280

The sealing factors were obtained from tests carried out on the SWCI design.
Graphite is not allowed with oxdiizing fluids. With non-oxidizing fluids, the maximum temperature of 550°C refers to the RF flange applications while for those LMF and LTG the limit is 650°C.

Applications

Spiral wound gaskets for piping flanges, valves, and industrial equipment.

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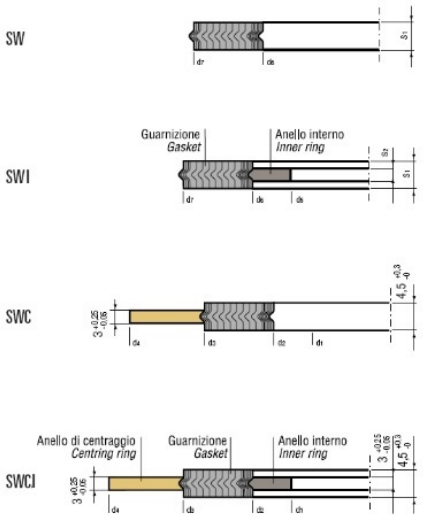
The Planisteel SW G gasket range, which includes spiral wound gaskets for all RF, LMF, and LTG flanges and is manufactured using all metals and fillers required for industrial applications, is available in four different designs. Planisteel SW G spiral wound gaskets are qualified according to major international type approval tests (TATs). Check the availability of Planisteel SW products in the **online stock**.



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