PLANISTEEL SW P OXY

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 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:** PTFE

Characteristics

Planisteel SW P OXY 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 P OXY 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.

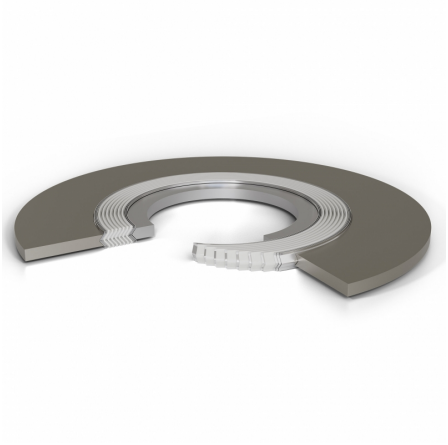
Approval BAM no. 24011518-E.

Performance Specifications	UM	Value
Minimum temperature	°C	-100
Maximum temperature - Oxygen Concentration 100%	°C	200
Maximum Temperature - Blended Oxygen	°C	260
Maximum Pressure - Oxygen Concentration 100%	bar	100
Maximum Pressure - Blended Oxygen	bar	according to the gasket rating
Min. Gasket Seating Stress - Sgmin-$S_{L=0.001}$	MPa	40
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.
PTFE is not suitable for use with molten alkali metals, elemental fluorine (F_2), fluorinated gases, concentrated nitric acid, or in combination with other oxidizing agents.

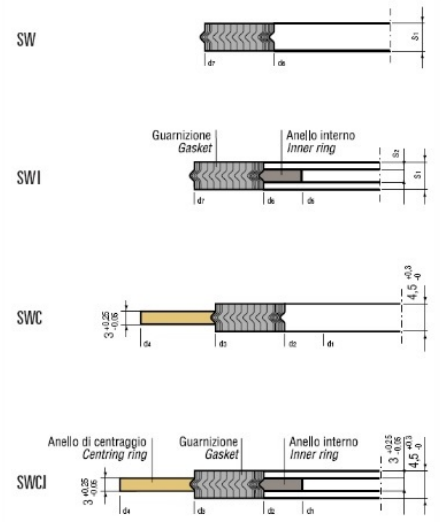
Applications

Gasket for gaseous oxygen services.



PLANISTEEL SW P OXY

The Planisteel **SW P OXY** 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 P OXY** spiral wound gaskets are qualified according to major international type approval tests (TATs). Check the availability of Planisteel SW products in the **online stock**.



The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not exactly represent the product, its color and/or marking.

GLOBAL SEALING SOLUTIONS

Carrara S.p.A.,
Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 carrara.it - info@carrara.it