



# PLANISTEEL SW PROTECTOR

## 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. The **Planisteeel SW PROTECTOR** is equipped with an internal ePTFE ring, 9 mm thick, whose inner diameter extends up to the inner edge of the raise, in order to protect the inner flange face from mechanical and chemical erosion.

- **Metal strip:** any type of steel or alloy is available
- **Filler:** PTFE
- **Protector:** inner ePTFE ring 9 mm thickness

## Characteristics

**Planisteeel SW PROTECTOR** 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.

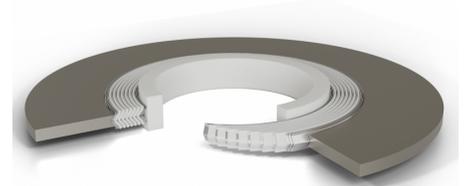
It's the new spiral wound gasket that protects the flanges from chemical erosion which occurs frequently in the chemical, petrochemical and refinery plants. Engineered specifically for Alkylation Unit, **Planisteeel SW PROTECTOR** is suitable in all other application where the target is the preservation of the flanges. The ePTFE ring dimensions is likely to be aligned to the edge of the flange. This avoids the erosion of the edge because the fluid proceeds linearly.

| Performance Specifications                          | UM  | Value                          |
|---|-----|--------------------------------|
| Minimum temperature                                 | °C  | -200                           |
| Maximum temperature                                 | °C  | 260                            |
| Maximum Pressure                                    | bar | according to the gasket rating |
| Min. Gasket Seating Stress - $S_{gmin-S_{L=0.001}}$ | MPa | 56                             |
| PTFE Chemical Resistance                            | pH  | 0 ÷ 14                         |
| Min. Gasket Operating Stress - $S_{gmin-O}$         | MPa | 30                             |
| Max Gasket Operating Stress - $S_{gmax}$            | MPa | 280                            |

The sealing factors were obtained from tests carried out on the SWCI design. This data sheet is for Alkylation Services.

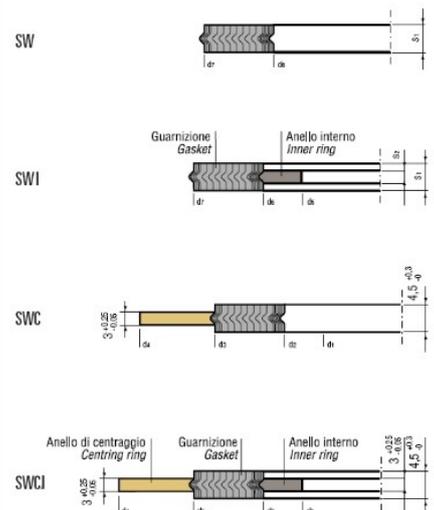
## Applications

Spiral wound gasket for Alkylation services.



## PLANISTEEL SW PROTECTOR

The **Planisteeel SW** gasket range, which includes spiral wound gaskets for all RF, LMF, and LTG flanges, manufactured with all metals and fillers required in industrial applications, consists of spiral wound gaskets produced in four designs. **Planisteeel SW** spiral wound gaskets are qualified in accordance with major international TAT standards. Check the availability of Planisteeel SW products on the [online stock](#).



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