

WHITE-MAX® Boiler Gaskets

▼ Material Composition and Application

WHITE-MAX® gaskets are especially designed for inspection ports of boilers and tanks. They provide reliable sealability with this low stress and exceptional dimension stability.

This form of gasketing is processed by expanding 100% pure polytetrafluoroethylene (PTFE). The result is a bi-directional, soft, highly compressible gasket for longer life and trouble-free sealing. Its form-in-place versatility is perfect for sealing boiler plates that are worn, warped or scored. The high compressibility of the WHITE-MAX® gasket enables it to effectively fill flange imperfections for a tight, leak-free seal. Unlike conventional PTFE which is prone to cold flow WHITE-MAX® has good creep resistance and bolt torque retention properties. It does not support bacterial growth or cause product contamination and is FDA compliant. It has virtually no shelf-life concerns since PTFE is unaffected by normal environmental conditions.

WHITE-MAX® has excellent resistance properties to chemical attack. It is ideal for most chemical services at temperatures to -450°F (-268°C) to 600°F (315°C) and pressure to 3,000 psi (206 bar). When high levels of CO²

in the steam and condensate require increased levels of neutralizing amines to prevent condensate corrosion. This chemical injection with increasing alkalinity could potentially contest the upper limits of resistance with other gasket compounds. In challenging thermal cycling and elevated temperature applications, the WHITE-MAX® gasket solution can reduce the process safety and production downtime risks caused by the use of an incorrect gasket material.

▼ WHITE-MAX® Advantages:

- High adaptability, suitable for flanges with corrosion and with uneven sealing surface
- Pressure test and service with the same gasket
- Very easy installation and removal
- Anti-sticking material, low effort for surface cleaning when installing a new gasket
- No embrittlement of the gasket in storage or in service
- Pure PTFE, conforms to FDA standards

PHYSICAL PROPERTIES

Temperature Minimum	-450°F (-268°C)
Temperature Maximum/Spike	500°F/600°F (260°C/315°C)
Pressure	Full Vacuum to 3000 psi (206.8 bar)
pH	0-14 (Except molten Alkali Metals and Elemental Fluorine)
Compressibility (ASTM F36)	55-62%
Recovery (ASTM F36)	12%
Creep Relaxation (ASTM F38)	32% @ 212°F 16% @ 73°F
Sealability (ASTM F37B)	
ASTM Fuel A	0.00 ml/hr
Nitrogen	0.02 ml/hr
Gas Permeability (DIN 3535)	0.00 cc/min
Ignition Loss (ASTM F495)	30%
Density	0.85 g/cm ³

STEAMWORKS