PLANICHEM
SICHEM SOLUTIONS

FLEXSEALS 500



FLEXSEALS® 500 is an asbestos-free gasketing sheet made of carbon fibres bonded with NBR rubber. It offers excellent steam resistance with higher performance parameters, providing a seal up to +250°C.

It is particularly suitable for applications involving high temperatures and pressures, primarily for superheated steam. It is also suitable for alkaline fluids. Thanks to their high-quality composition, these gasket sheets can be used in a wide range of applications within the petrochemical sector, oil production, the chemical industry, the food industry and the mechanical engineering sector.

Chemical and thermal resistance: This type of flat gasket is widely used in all industrial applications involving contact with most chemicals, oils and gases at moderate temperatures and low pressures. The flat gasket made from FLEXSEALS® 500 can be used to seal water, oils, coolants and basic chemicals in the petrochemical and oil industries.

Excellent workability: easy to die-cut and CNC-cut, ensuring precision even for complex geometries.

Temperature and pressure resistance: Flat gaskets made from compressed, asbestos-free fibres are suitable for use at moderate temperatures and pressures, and offer good chemical resistance.

Operating temperature: up to +250°C, depending on the type of fluid, the pressure and the applied load.

Compressed fiber	Flexseals 500
Composition	Carbon fibres and high quality NBR binder
Minimum density DIN 28090-2	1.6 g/cm³
Maximum density DIN 28090-2	1.9 g/cm³
Maximum operating temperature	250 °C
Max recommended Peak Temperature	450 °C
Max operating pressure	10 Mpa
Leakage DIN 3535-6	0.05 mg*s-1*m-1
Residual Stress* 16h/175 °C Din 52913	32 Mpa
Compressibility ASTM F 36-J	5-15 %
Recovery ASTM F 36-J min.	50 %
ASTM OIL -IRM 903 5h/150 °C max ASTM F 146	3 %
ASTM FUEL B 5h/23 °C max ASTM F 146	5 %
Available sheets size	1500x1500 mm 1500x3000 mm
Available thickness	from 0.5 to 5 mm
Sheet size tolerance	50 mm
Thickness tolerance	10 %

The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.

Planichem s.r.l.
Via Consolare 41/43 25030 Zocco di Erbusco (BS) - ITALY
Tel: +39 030 7386033 - www.planichem.com - info@planichem.com