PLANICHEM
SICHEM SOLUTIONS

FLEXIGRAF MULTIFLEX

FLEXIGRAF® MULTIFLEX is a multilayer gasketing sheet for flat gaskets made of pure expanded mineral graphite, reinforced with a smooth AISI 316L stainless steel foil insert.
The composition based on pure graphite, reinforced by multilayer steel inserts, makes these flat gasket sheets suitable for severe operating conditions. They are ideal for use with high-temperature and high-pressure saturated steam, chemical agents, and aggressive fluids, provided they are used in non-oxidizing environments.

High thermal resistance: graphite is known for its electrical conductivity and low thermal conductivity, making it suitable for applications involving high-temperature saturated steam.

Superior stability and flexibility: the multiple stainless steel 316L reinforcement foils provide a solid structure, giving additional mechanical strength and stability to the gasket and improving performance in demanding applications.

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

High resistance to high temperatures and pressures: reinforced graphite flat gaskets are suitable for applications requiring high resistance to temperature and pressure, along with good chemical resistance. They are ideal for use in plants operating with saturated and superheated steam, or in applications requiring materials capable of withstanding very high temperatures without losing their mechanical properties.

Operating temperature: up to **+550 °C**, depending on the type of fluid, pressure, and applied load.

Expanded graphite	Flexigraf Multiflex
Composition	Graphite laminate reinforced with a flat stainless steel multilayers core
Minimum density DIN 28090-2	1.3 g/cm³
Maximum density DIN 28090-2	1.6 g/cm³
Min recommended Peak Temperature	-200 °C
Max recommended Peak Temperature	+550 °C
Max operating pressure	200 bar
Leakage DIN 3535-6	≤0.1 mg*s-1*m-1
Creep relaxation DIN 3535-6	≤5 %
Compressibility DIN 3535-6	30-45 %
Recovery DIN 3535-6	3-7 %
Available sheets size	1500x1500 mm 1000x1000 mm 1500x1000 mm
Available thickness	from 1 to 6 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