

Technical Datasheet AF-GF (Non-Metallic)

Compressed Non-Asbestos Fibre (CNAF) Gasket Sheet



Material Composition

Aramid Fibres, Glass Fibres, Inorganic fillers.
(Binders: NBR)

Application

Offers excellent resistance to steam and hot water, with superior stress relaxation for secure sealing. Ideal for oils, fuels, gases, freons, and various flanged joints including pipelines, radiators, and boilers. Recommended for OEM applications.

Color

Beige, Blue, Green (other color upon request)

Compliance

BS7531 Grade X

ASTM F 104 Line call out: F 712112 A9 B3 E12 A9

Standard Dimensions of Sheets

1000 X 1000 mm, 1000 X 1500 mm, 1500 X 1500 mm, 1500 X 2000 mm, 1500 X 2250 mm, 1500 X 3000 mm, 1500 X 4500 mm, 2000 X 2000 mm, 2000 X 3000 mm

Available Thickness

0.30mm to 6.00mm

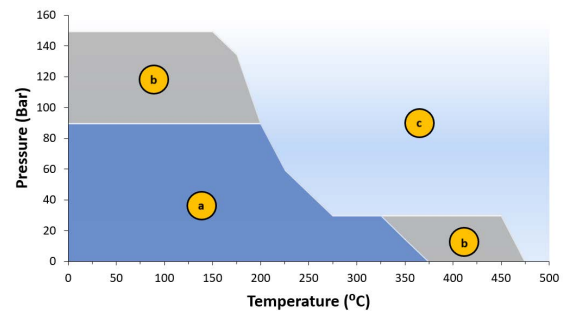
Operating Condition

Max. Peak Temperature : 475 °C
Max. Operating Temperature : 375 °C
Max. Peak Pressure : 150 bar
Max. Continuous Temp. with steam : 280 °C

Typical Physical Properties Applicable for Thickness 1.50mm

Typical Properties	Test Method	Typical Value	Unit
Density	ASTM F 1315	1.70 – 2.00	g/cm ³
Tensile Strength	ASTM F 152	8 (Min.)	N/mm ²
Compressibility	ASTM F 36J	7 – 12	%
Recovery	ASTM F 36J	50 (Min.)	%
Stress Relaxation (175 °C)	BS 7531	30 (Min.)	N/mm ²
Gas Permeability	BS 7531	≤ 1.0	ml/min
Ignition Loss	ASTM F 495	≤ 30.0	%
ASTM Oil No. 3/IRM 903 (5h, 150 °C)			
Thickness Increase	ASTM F 146	≤ 10.0	%
Weight Increase	ASTM F 146	≤ 10.0	%
ASTM Fuel B (5h, 23 °C)			
Thickness Increase	ASTM F 146	≤ 10.0	%
Weight Increase	ASTM F 146	≤ 10.0	%
Water (5h, 100 °C)			
Thickness Increase	ASTM F 146	≤ 10.0	%
Weight Increase	ASTM F 146	≤ 15.0	%

Operating Parameters



Guidelines for application

Area a: General suitability - Under common installation practices and chemical compatibility.

Area b: Conditional suitability - Technical consultation is recommended.

Area c: Limited suitability - Technical consultation is mandatory

*Size Tolerance: ± 10% | Thickness Tolerance: 0.10mm for <1.00mm & 10% for >1.00mm

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