

# DURASILE®

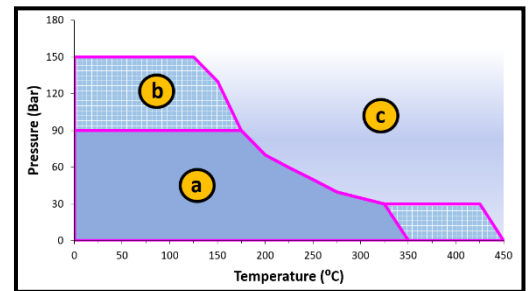
## AF-GF (Non-Metallic)

### Technical Datasheet

<b>Material Type</b>	: ASBESTOS FREE GASKET MATERIAL.
<b>Material Composition</b>	: Aramid Fibres, Glass-Fibres, Synthetic Elastomers (NBR), Inorganic Fillers.
<b>Application</b>	: Suitable for excellent resistance to steam and hot water. A premium product with greater security through good stress relaxation. It can be used for sealing oils, fuels, gases, freons, pipelines, radiators, boilers and many other instances of flanged joints.
<b>Thickness</b>	: <b>0.30mm to 4.00 mm</b>
<b>Surface Finish</b>	: Green, Grey/Graphite (Other color also available on customer requirement).
<b>Operating Condition</b>	: Max. Peak Temperature: <b>450 °C</b> : Max. Operating Temperature: <b>350 °C</b> : Max. Peak Pressure: <b>150 bar</b> : Max. Continuous Temp. with steam: <b>250 °C</b>
<b>Compliance</b>	: <b>ASTM F 104</b> Line call out: F 712112 A9 B3 E12 A9 M4 BS7531 Grade X
<b>Dimensions of standard sheets</b>	: 1500 X 1500 mm, 1500 X 4500 mm, 1500 X 2250 mm 1500 X 2000 mm, 1500 X 4000 mm, 2000 X 3000 mm

### Areas of Application

- Area **(a)** refers: The gasket material is normally suitable subject to chemical compatibility.
- Area **(b)** refers: The gasket material may be suitable but a technical support is recommended.
- Area **(c)** refers: Do not install the gasket without technical evaluation.



(The following Information applies to material thickness 2.0mm.)

S No.	Typical Properties	Test Method	Specified Value	Unit
1	Density	ASTM F 1315	1.7 – 2.0	g/cm <sup>3</sup>
2	Tensile Strength	ASTM F 152	≥ 7.0	N/mm <sup>2</sup>
3	Compressibility	ASTM F 36 A	6 – 12	%
4	Recovery	ASTM F 36 A	≥ 50	%
5	Ignition Loss	DIN 52911	≤ 30	%
6	Gas Permeability	DIN 3535	< 1.0	cm <sup>3</sup> /min
7	Stress Relaxation (16h, 175 °C)	DIN 52913/BS 7531	≥ 30.0	N/mm <sup>2</sup>
8	Stress Relaxation (16h, 300 °C)	DIN 52913/BS 7531	≥ 25.0	N/mm <sup>2</sup>
9	<b>Fluid Absorption</b>			
	<b>(A) In ASTM Oil No. 3 (5h, 150 °C)</b>	ASTM F 146		
	Increase in Mass		≤ 10	%
	Increase in Thickness		≤ 8	%
	<b>(B) In Fuel B (5h, 25°C ±4°C)</b>	ASTM F 146		
	Increase in Mass		≤ 10	%
	Increase in Thickness		≤ 7	%
	<b>(C) In Water (22h, 25°C ±4°C)</b>	ASTM F 146		
	Increase in Mass		≤ 15	%
	Increase in Thickness		≤ 5	%

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

**NOTE:** All information and recommendations given in this brochure are correct to the best of our knowledge. Since conditions of use are beyond our control. The information provided can only serve as a guideline. Users must satisfy themselves that products are suitable for the intended process and uses. We reserve the right to change product design and properties without notice.