

Non-Asbestos Fibre Grade AF-GL BS 7531 Grade X Jointing

Typical Applications:

Non-Asbestos fibre grade AF-GL meets the requirements of BS7531 Grade X and parts produced from this material ensure a high tightness and excellent resistance to a wide variety of medium. The material is suitable for water, steam, fuels, oils, salt solutions, weak acids and bases.

Material makeup:

The material is made of a mixture of mineral and Kevlar® aramid, glass and mineral fibres, bonded with NBR binder.

Appearance:

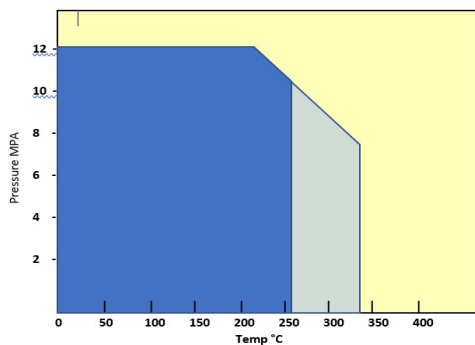
The material surface is smooth without cracks, indentation, breakages or blisters.

Dimensions and tolerances are shown on page 2.

Basic physical and usage features are included in the table on page 2, for full chemical resistance please ask for further information.

Normally a Mica flake anti-stick surface is applied to this sheeting, however Graphite can be used where requested.

Operating Area:



The darker blue area of the graph opposite represents the safe operating zone for this material. The light blue area should be tested, especially if there is high temperature steam present. The yellow area is generally outside safe working parameters.

It is not recommended that maximum temperature and pressure are applied simultaneously – the graph is based on 2mm thickness material.



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Classification according to DIN 28091-2

FA-GA1-0

Approvals / Admissions / Certificates

BS7531 Grade X
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Non-Asbestos Grade AF-GL BS7531 Grade X				
Maximum Operating	Peak Temperature:	°C	400	
	Continuous Temperature	°C	340	
	Continuous Temperature with steam	°C	250	
	Pressure	Mpa	12Mpa	
	Tested to BS7531 Grade X for use with water, steam, oils, solvents, gas, dilute acids and alkalis			
Method and type of test				
Physical and Chemical Features	Density ± 5%	g/cm ³ (DIN 28090-2)	1.9	
	Tensile strength cross fibre minimal value	Mpa (DIN 52910)	9	
	Compressibility at 35 Mpa / 20°C	% (ASTM F36)	10	
	Elastic recovery / 20°C minimal value	% (ASTM F36)	55	
	Residual stress 50Mpa/16h/300°C	Mpa (DIN 52913)	29	
	Residual stress 50Mpa/16h/175°C	Mpa (DIN 52913)	34	
	Thickness increase of material:			
	In Oil IRM 903 (150°C/5hr)	% (ASTM F146)	6	
In Fuel B (150°C/5hr)	% (ASTM F146)	6		
Colour			Silver/Silver	
Standard thickness (mm)	0.3, 0.5, 0.8,	%	±10	
	1.0, 1.5, 2, 2.5,	mm	±0.10	
	3, 4, 5, 6mm	mm	±0.15	
	± 0.15			
Thickness above 4mm are laminate glued				
ASME Coefficient Factors at 1.5mm, tightness class L1,0	Y		2.3MPa	
	M		2.0	
ASME Coefficient Factors at 1.5mm, tightness class L0,1	Y		5.8MPa	
	M		6.10	
Sheet Size	Standard 1500x1500, 1500x3000 special			

Values in the table above are based on gasket sheets with a thickness of 2mm except where stated otherwise.

Wire reinforced version of this material is also available.

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