

## Non-Asbestos Fibre Grade AF-MF BS 7531 Grade X Jointing

### Typical Applications:

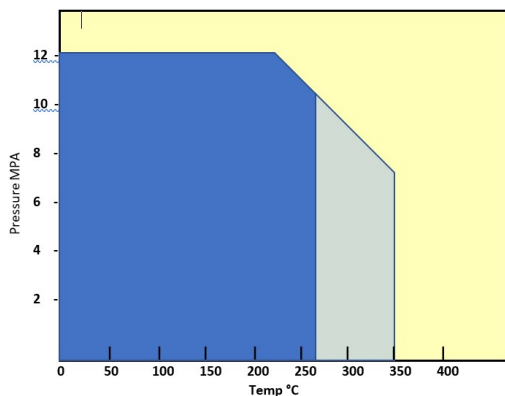
This is a high quality Non-Asbestos fibre gasket sheet material with excellent oil resistance thanks to bio-soluble mineral fibres, with a higher thermal resistance, especially in steam applications. The material is recommended in applications with water, steam, fuels and oils and meets the BS7531 grade X standard.

### Material makeup:

AF-MF sheet material is based on bio-soluble mineral fibres, Kevlar® fibres and fillers bonded with an NBR binder system.

### 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.



Registered in England and Wales. Reg No. 4512847

Reg No. GB15028 VAT Reg No. GB 799 00953 61

**Classification according to DIN 28091-2**

FA-MA1-0

**Approvals / Admissions / Certificates**

BS7531 Grade X  
GOST R

Non-Asbestos Grade AF-MF BS7531 Grade X				
Maximum Operating	Peak Temperature:	°C	400	
	Continuous Temperature	°C	350	
	Continuous Temperature with steam	°C	280	
	Pressure	Mpa	12Mpa	
	Tested to BS7531 Grade Y 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 <sup>3</sup> (DIN 28090-2)	2.0	
	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			Yellow	
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	2.2MPa	
		M	2.0	
ASME Coefficient Factors at 1.5mm, tightness class L0,1		Y	4.8MPa	
		M	4.70	
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.

KEVLAR® is registered trademark of E.I. duPont de Nemours and Company or its affiliates.



Registered in England and Wales. Reg No. 4512847

Reg No. GB15028 VAT Reg No. GB 799 00953 61

All recommendations and information contained in this specification sheet are to the best of our knowledge correct. Since conditions of service are beyond our control, users must satisfy themselves that the products are suitable for the intended use. No warranty is given or implied in respect of information or recommendations or that any use of products will infringe rights belonging to other parties. In any event or occurrence our liability is limited to the invoice value of our goods delivered to you. We reserve the right to change product design and properties