

## Non-Asbestos Fibre Grade AF-300B – Orange BS 7531 Grade Y Jointing

### Typical Applications:

Non-Asbestos fibre grade AF-300B is used for the production of flat gaskets working in temperatures, pressures and environmental ranges in accordance with the table in the second sheet of the material specification. The sheet is flexible and adapts itself more easily to curvatures and irregularities of the flange. It is specially recommended for water and steam systems, in heating engineering, power engineering and general services. The material is resistant to brake and cooling fluids making and is widely used in automotive applications.

### Material makeup:

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

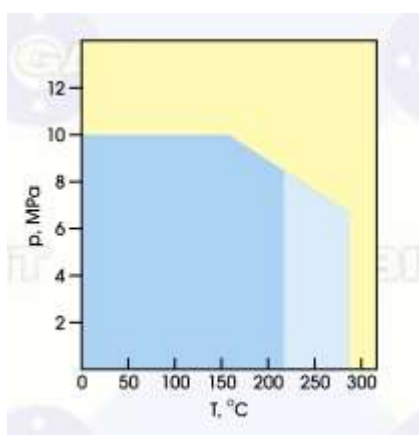
### Appearance:

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 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-AM1-O

**Approvals / Admissions / Certificates**

BS7531 Grade Y  
DVGW  
INIG  
GOST R

Orange Non-Asbestos Grade AF-300B BS7531 Grade Y				
Maximum Operating	Peak Temperature:	°C	320	
	Continuous Temperature	°C	280	
	Continuous Temperature with steam	°C	220	
	Pressure	Mpa	10Mpa	
	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/cm3 (DIN 28090-2)	2	
	Tensile strength cross fibre minimal value	Mpa (DIN 52910)	8	
	Compressibility at 35 Mpa / 20°C	% (ASTM F36)	11	
	Elastic recovery / 20°C minimal value	% (ASTM F36)	50	
	Residual stress 50Mpa/16h/300°C	Mpa (DIN 52913)	22	
	Residual stress 50Mpa/16h/175°C	Mpa (DIN 52913)	28	
	Thickness increase of material:			
	In distilled water - Maximum value	%	4	
In Type No. 3 oil (150°C /5hr)	%	12		
Colour			Orange/Orange	
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	2MPa	
		M	2.0	
ASME Coefficient Factors at 1.5mm, tightness class L0,1		Y	3.5MPa	
		M	2.0	
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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