



TESNIT BA-R NON-ASBESTOS JOINTING MATERIAL

Tesnit BA-R is a non-asbestos jointing sheet with wire reinforcement, and is designed for fluctuating pressure and temperatures. It is made from aramid fibres and high temperature resistant compounds, bonded with NBR binder. High quality, high density woven steel wire mesh, is inserted to allow for higher surface loading and thermal conductivity, with minimum gasket creep and good shape stability. Its formulation is similar to that of Tesnit BA -U, so as to achieve good chemical resistance over a wide range of mediums allowing it to cover the widest possible field of applications.

Specification compliance	Tesnit BA (non - asbestos) jointing materials are tested to norms internationally accepted for this product range.
Certification:	Germanisher Lloyd Type Approval Certificate for Marine Application
Supply data	Graphite surface finish standard. Special surface coating with silicone or PTFE, on one or both sides on request.
Colour	Black
Sheet size	1500mm x 1000 mm, 1500mm x 1500 mm
Nominal thickness	0.8mm, 1.0mm, 1.5mm, 2.0mm, 3.0 mm
Tolerance	Sheet dimensions (+/-) 50 mm, thickness (+/-) 10%

Technical Data:

(Values relate to 2mm thickness)

Operating Pressure		max.	bar	140
Peak Operating Temperature	(see note 1)	max.	°C	400
Continuous Service Temperature	(see note 1)		°C	350
	with steam	max.	°C	230
Compressibility	(ASTM F36-/J)		%	7
Recovery	(ASTM F36-/J)	min	%	50
Stress Relaxation	(DIN 52913)			
	16 hrs, 300 °C, 50 N/mm ²	min	N/mm ²	30
	16 hrs, 175 °C, 50 N/mm ²	min	N/mm ²	35
Tensile Strength - across grain	(DIN 52910)	min	N/mm ²	15
Immersion Test (ASTM F146) in ASTM Oil No. 3 for 5 hrs at 150 °C				
- Weight Increase		max	%	10
- Thickness Increase		max	%	8
Immersion Test (ASTM F146) in Fuel B for 5 hrs at 20 °C				
- Weight Increase		max	%	9
- Thickness Increase		max	%	7
- Tensile Strength		min	N/mm ²	7
Ignition loss *	(DIN 52911)	max	%	26
Density	(DIN 3754)		g/cm ³	1.8

Notes:

* without wire mesh

- Actual service limits depend upon relationship between temperatures and pressures, fluids and medium to be sealed and flange connection etc.
- Prior to gasket installation do not use any compounds. Such treatment will result in negative gasket performance, as it softens the gasket surface, which results in creeping and reduces the friction characteristics.