



Specification Sheet

Mastite NASB 12 is compressed sheeting produced as a matrix of carbon and inorganic fibres, bound with a blend of elastomers. This structure provides temperature and hydrolysis resistance, making it suitable for a wide range of industrial sealing applications. The use of carbon fibre reinforcement allows the material to offer higher resistance to steam than those materials utilising aramid fibres.

CHARACTERISTICS

Colour:	Black
Thickness:	0.5, 1.0, 1.5, 2.0, 3.0mm
Standard sheet dimensions:	2000mm x 1500mm
Inherent Anti-stick properties	
Good behaviour on cutting	

TECHNICAL DATA

Density (gr/cm ³)		1.55±10 %
Compressibility	(ASTM F-36A)	7 - 15 %
Recovery	(ASTM F-36A)	> 45 %
Residual stress	(DIN 52913)	> 31 N/mm ²
Transverse Tensile Strength	(ASTM F-152)	8 N/mm ²
Gas Permeability	(DIN3535/4)	< 0.1 cc/mm
Leachable chlorides		< 50 ppm
Sulphur Content		< 100 ppm

Increase in Thickness

	(ASTM F-146)	
ASTM Oil No.1	(5hrs @ 150°C)	< 8 %
ASTM Oil No.3	(5hrs @ 150°C)	< 15%
ASTM Fuel B	(5hrs @ 20°C)	< 15 %

Flexibility	Good
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Maximum temperature	450°C
Maximum Pressure	120 Bar

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Due to its composition NASB 12 provides excellent resistance to chemicals. It conforms to DIN 3754 (paragraph 5.7), which are tests normally reserved for CAF materials.

CHEMICAL RESISTANCE TABLE

SYMBOL	TEST FLUID & METHOD	THICKNESS INCREASE (Max.)	
		DIN 3754	NASB 12
IT 200	Water for 5hrs @ 100°C	10	< 3
IT 300			
IT 400			
IT S	Sulphuric acid Dens. 1.56 (65%) 48hrs @ ambient temp.	20	< 3
IT O	ASTM oil No. 3 5 hrs @ 150°C	15	< 15
IT C	Caustic soda solution Dens. 1.28 (25%) 48hrs @ ambient temp.	15	< 7
	Toluene (commercial quality) 5hrs @ ambient temp.	35	< 20

TYPICAL APPLICATIONS & INDUSTRIES

The properties of this material allow contact with oils, solvents, alkalis and organic acids. It is also permissible to use **NASB 12** with ketones, esters, strong alkalis and inorganic acids (except hydrofluoric and concentrated nitric). Therefore it is suitable for most medium end applications, although advice should be sort if using high concentrations.

Good performance and long service life of gaskets depends largely on the fitting of gaskets and the operating conditions, over which BG have no control.

The data given in this technical sheet should be used as guidance only. We offer guarantees only for the quality of our products.

Masite NASB 12