



# Specification Sheet

Mastite NASB 5 is compressed sheeting produced from a mixture of aramid and inorganic fibres, bound with a blend of elastomers. This structure provides temperature and hydrolysis resistance in the material, making it suitable for a wide range of industrial sealing applications. It is also available with steel wire mesh reinforcement or graphite finish (NASB 5 WG) and just graphite finish (NASB 5G).

## CHARACTERISTICS

Colour: Vibrant Green  
 Thickness: 0.5, 1.0, 1.5, 2.0, and 3.0mm  
 Standard sheet dimensions: 1500mm x 1500mm  
 Inherent Anti-stick properties  
 Good behaviour on cutting  
 Good resistance to oils, hydrocarbons and refrigerants.

## TECHNICAL DATA

Density (gr/cm <sup>3</sup> )		1.55±10 %
Compressibility	(ASTM F-36A)	8 - 11 %
Recovery	(ASTM F-36A)	> 50 %
Residual stress	(DIN 52913)	> 32 N/mm <sup>2</sup>
Degree of adhesion	(ASTM F 64-F 104)	Class 1
Transverse Tensile Strength	(ASTM F-152)	9 N/mm <sup>2</sup>
Gas Permeability	(DIN3535/4)	< 0.1 cc/mm
Leachable chlorides		< 50 ppm
Sulphur Content		< 100 ppm
Maximum lower service temperature		- 45 °C

<b>Increase in thickness</b>	<b>(ASTM F-146)</b>	
ASTM Oil No.1	(5hrs @ 150°C)	< 4 %
ASTM Oil No.3	(5hrs @ 150°C)	< 8%
ASTM Fuel B	(5hrs @ 20°C)	< 8 %

Flexibility	> 32
Maximum temperature	400°c
Maximum Pressure	100 Bar

<b>Tensile Strength</b>	<b>(DIN52910)</b>	
Lengthwise		25 N/mm <sup>2</sup>
Crosswise		9 N/mm <sup>2</sup>
Stress relaxation	(DIN52913)	28 N/mm <sup>2</sup>
Cold compressibility	(DIN28091-2)	10-11%
Cold recovery	(DIN28091-2)	3-4%

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Hot creep at 200°C	(DIN28091-2)	10-11%
Hot recovery at 200°C	(DIN28091-2)	1.0%
Recovery	(DIN28091-2)	0.02mm
Maximum gaskets pressure	(DIN28090-2)	100 N/mm <sup>2</sup>
Tightness with N <sub>2</sub>	(DIN3535)	< 0.5cm <sup>3</sup> /min
Approvals		KTW, DVGW, HTB

Due to its composition NASB 5 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 5
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	< 8
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 5** 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.

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