



# Specification Sheet

This material is produced from a mixture of aramid and high quality mineral fibres, bonded with a NBR and SBR matrix. This structure creates a material, which exhibits exceptional flexibility and cutting properties. It has been specifically designed to offer controlled swelling in oils, resistance to compression and low gas permeability. Conforms to BS7531 Grade Y.

## CHARACTERISTICS

Colour:	Pale Orange
Thickness:	0.8, 1.0, 1.5, 2.0, and 3.0mm
Standard Sheet Dimensions:	2000mm x 1500mm
Good behaviour on cutting	
High flexibility material	
Moderate resistance to hydrocarbons and alkalis	

## Resistance to Temperature

Maximum continuous temperature	200°C
Maximum short term temperature	300°C

## TECHNICAL DATA

Density (gr/cm <sup>3</sup> )		1.60±10 %
Compressibility	(ASTM F-36A)	7 - 15 %
Recovery	(ASTM F-36A)	> 45 %
Transverse Tensile Strength	(ASTM F-152)	7 N/mm <sup>2</sup>
Gas Permeability	(DIN3535/4)	< 0.1 cc/mm
Leachable Chloride		< 50 ppm
Sulphur Content		< 100 ppm

## Increase in thickness

	<b>(ASTM F-146)</b>	
ASTM Oil No.1	(5hrs @ 150°C)	< 12 %
ASTM Oil No.3	(5hrs @ 150°C)	< 15%
ASTM Fuel B	(5hrs @ 20°C)	< 10 %

Loss at 800°C		< 28%
Flexibility		Excellent
Maximum Pressure		60 Bar

## Tensile strength (DIN52910)

Lengthwise		18 N/mm <sup>2</sup>
Crosswise		7 N/mm <sup>2</sup>
Stress relaxation	(DIN52913)	25 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)	11-12%
Hot recovery at 200°C	(DIN28091-2)	1.0%
Recovery	(DIN28091-2)	0.02mm
Maximum gasket pressure	(DIN28090-2)	100 N/mm <sup>2</sup>
Tightness with N <sub>2</sub>	(DIN3535)	< 1.0cm <sup>3</sup> /min
Anti Stick Finish	(ASTM-64-F104)	Class 1

## TYPICAL APPLICATIONS & INDUSTRIES

This material can be used in engines, transformers and other applications where contact with oils is required.

## APPROVALS

**NASB6G** (Graphite coated both faces) has been tested in the field for the past few years and has proved to be successful in sealing at low flange and bolt pressure. Independent tests carried out by our customers, has led to extensive approvals by major engine manufacturers.

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. If you require any further technical information, please contact our technical department, c/o Dr. Ken Taylor.

We offer guarantees only for the quality of our products.

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