



# The British Gaskets

*Best Under Pressure*

## NASB8XG

### BS7531 GRADE X (DIN28091 FA-AM1-0)

#### PREMIUM QUALITY GASKET MATERIAL FOR INDUSTRY

#### TECHNICAL DATA SHEET

##### □ COMPOSITION

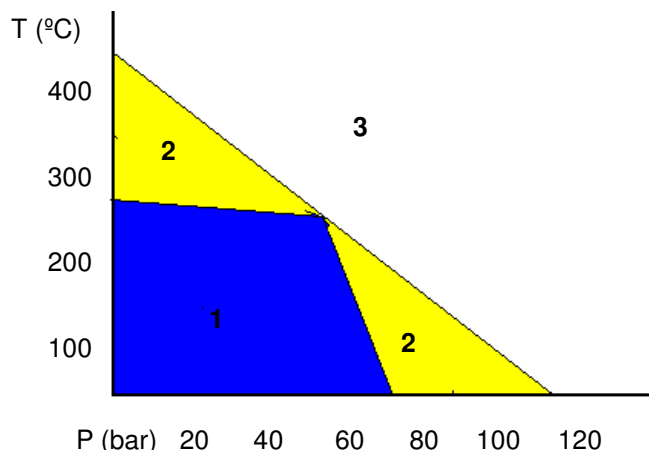
High quality compressed non asbestos fibre jointing sheet made with aramide and high quality mineral fibres in a NBR rubber matrix. NASB8X has the lowest gas permeability value, with the highest tensile strength and the best flexibility. NASB8X is a high-tech product with the highest stress relaxation value (BS7531 Grade X, DIN28091 FA-AM1-0) in the market. Material suitable for many uses and with most of the fluids. Universal gasket material for every equipment and services. Graphite coated both sides.

##### □ TECHNICAL DATA

COLOUR	Green
Standard sizes (mm) Other upon request	1500 x 1500
Standard thickness (mm). Other upon request	0.5; 0.8;1; 1,5 ; 2; 3
Density ( $\pm 10\%$ )	1.65 g/cm <sup>3</sup>
Compressibility ASTM F-36 A	7%-15%
Recovery ASTM F-36 A	>55%
Transverse tensile strength ASTM F-152	13 MPa
Stress relaxation (BS 7531 1.5mm 300°C/16H) (Mpa)	25
Gas permeability DIN 3535/6	<0.4cm <sup>3</sup> /min
Hot creep at 200°C $\xi_{wsW/200}$ (%)	10-11
Cold compressibility $\xi_{KSW}$ (%)	10
Cold recovery $\xi_{KRW}$ (%)	3.0
Hot recovery at 200°C $\xi_{wsR/200}$ (%)	0.9
THICKNESS INCREASE ASTM F-146	
ASTM oil N <sup>o</sup> 1 5h 150°C	<2%
ASTM oil N <sup>o</sup> 3 5h 150°C	<4%
ASTM fuel B 5h RT	<6%

Typical properties for 2 mm thickness.

#### PRESSURE-TEMPERATURE DIAGRAM



#### P-T OPERATING GUIDELINES

1- Usually satisfactory to use without reference to British Gaskets Ltd. Technical examination is normally unnecessary.

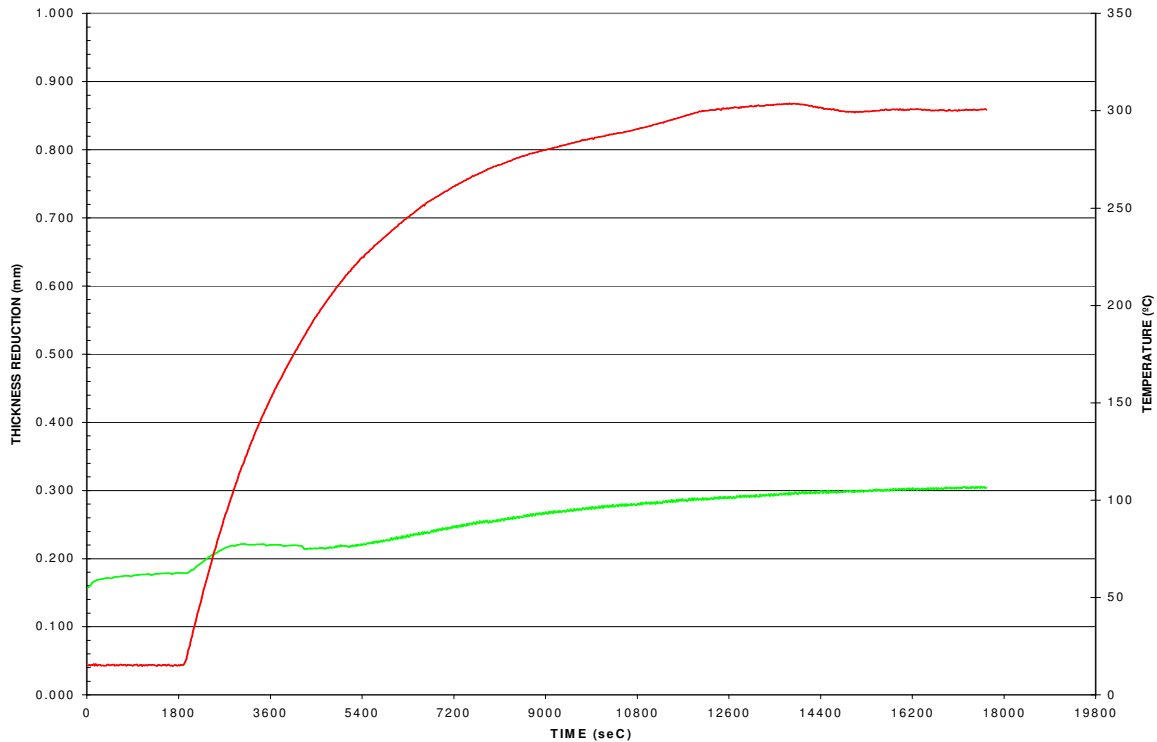
2- Must refer to British Gaskets Ltd for advice. A technical examination is recommended

3- Area not recommended.

The P-T diagram helps the user or designer who often knows the operating temperature and pressure to carry out an initial selection of a suitable material. The P-T diagram cannot guarantee the suitability of a material for an application

# CREEP DEFORMATION HOT CREEP TEST

NASB8X 2 mm - 50 MPa - 300°C



--- TEMPERATURE INCREASE  
--- THICKNESS DECREASE

FYESA' LABORATORY  
SEPTEMBER 2005

CREEP DEFORMATION: percentage loss of thickness over a specified time under constant load, applied at a specified rate, at a specified temperature.

Creep (%) = (loss of thickness under load at a specified time / initial thickness of the sample) x 100

Creep deformation gives an indication of the effect of time and temperature on deformation behaviour of gaskets materials.

This parameter also gives an indication about the trend of a gasket material to leak in combination with the variables that also affect to a flanged union.

Good performance and long service life of gaskets depend in large measure on fitting and operation conditions, over which the manufacturer has no control. The data given on this technical sheet should not be used as application limits, but as guidance for an appropriate choice. We can offer guarantees only for the quality of our products.

**British Gaskets Ltd**  
Bulmer Road Ind Est, Sudbury, Suffolk, CO10 7HJ  
Tel. +44 (0) 1787 881188 Fax. +44 (0) 1787 880595  
e-mail: sales@british-gaskets.co.uk  
[http:// www.british-gaskets.co.uk](http://www.british-gaskets.co.uk)