



The British Gaskets Group

Best Under Pressure

NASB7Y

BS7531 GRADE Y (DIN28091 FA-AM1-0)

UNIVERSAL GASKET MATERIAL FOR GENERAL INDUSTRY & OEM

TECHNICAL DATA SHEET

□ COMPOSITION

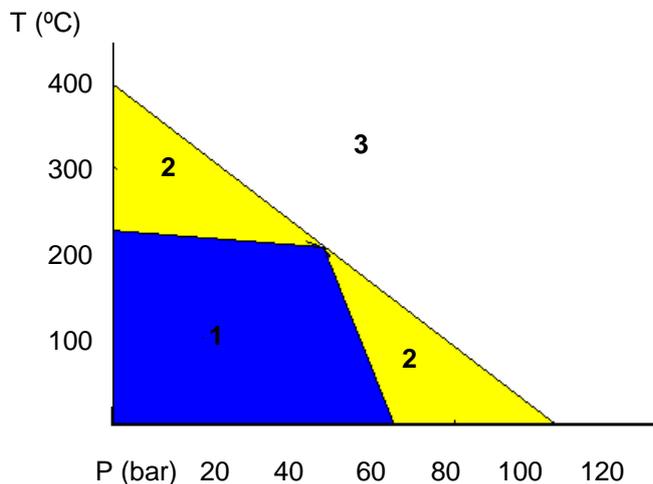
High quality compressed non asbestos fibre jointing sheets based on aramide and special mineral fibers mixed in a NBR rubber matrix. This material offers high stress relaxation (BS7531 Grade Y, DIN28091 FA-AM1-0), high compressibility and low gas permeability, excellent characteristics for universal services. Material suitable for use with air, water, oils, hydrocarbons, gases and common uses. Particularly suitable for use in compressors, pumps, valves and OEM equipment.

□ TECHNICAL DATA

COLOUR	Blue
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 ³
Compressibility ASTM F-36 A	7%-15%
Recovery ASTM F-36 A	>55%
Transverse tensile strength ASTM F-152	12 MPa
Stress relaxation (BS 7531 1.5mm 300°C/16H) (Mpa)	22
Gas permeability DIN 3535/6	<0.5cm ³ /min
Hot creep at 200°C $\xi_{wsw/200}$ (%)	10-12
Cold compressibility ξ_{KSW} (%)	11
Cold recovery ξ_{KRW} (%)	3.5
Hot recovery at 200°C $\xi_{wsR/200}$ (%)	1.0
THICKNESS INCREASE ASTM F-146	
ASTM oil N°1 5h 150°C	<3%
ASTM oil N°3 5h 150°C	<5%
ASTM fuel B 5h RT	<7%

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.

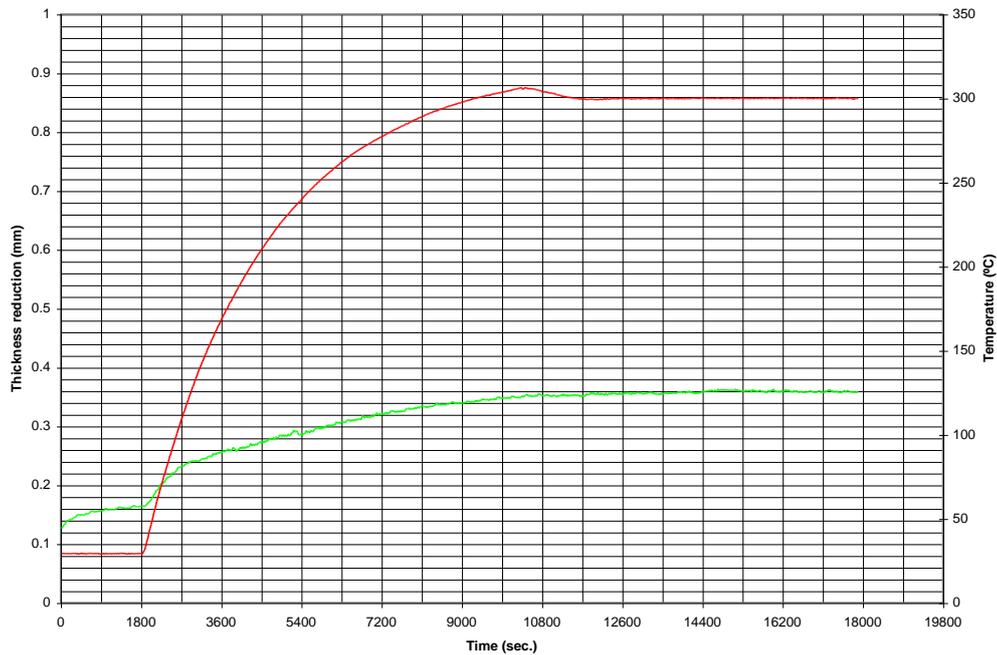
2- Must refer to British Gaskets Ltd for advice. A technical examination is recommended

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

NASB7Y 2mm 50MPa y 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.

$$\text{Creep (\%)} = \left(\frac{\text{loss of thickness under load at a specified time}}{\text{initial thickness of the sample}} \right) \times 100$$

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)