



**FLEXITALLIC
AF2100**

FLEXITALLIC LIMITED

PO BOX 3 MARSH WORKS DEWSBURY ROAD
CLECKHEATON WEST YORKSHIRE BD19 5BT
TEL: 01274 851273 FAX: 01274 851386

**PRODUCT
REFERENCE:**

FLEXITALLIC AF 2100

DESCRIPTION:

AF 2100 is a high performance nitrile rubber based sheet sealing material reinforced with glass fibre.

COLOUR:

Blue

SERVICE:

AF 2100 is suitable for sealing in a wide range of applications involving steam, water, oils, fuels, mild acids and alkalis.

Maximum recommended temperature : 475°C (887°F)

Maximum recommended pressure : 14 MPa (140 bar; 2030 psi)

These temperature and pressure guides cannot necessarily be used simultaneously and may not apply at all thicknesses.

Do NOT use gasket pastes.

The higher compressibility of AF 2100 compared to CAF combined with the comparative effects of thickness on residual stress means that AF 2100 should be used at lower thicknesses. It is recommended that 1.0 mm AF 2100 be used in place of 1.5 mm CAF.

TYPICAL PHYSICAL PROPERTIES:

Thickness		1.0 mm
Density	gcm ⁻³	1.60
ASTM Compressibility	%	18
ASTM Recovery	%	68
BS Residual Stress	MPa	27
DIN Gas Permeability	mL/min	0.03
ASTM Oil Thickness Increase	%	5
ASTM Fuel B Thickness Increase	%	10
ASTM Oil 3 Weight Increase	%	18
ASTM Fuel B Weight Increase	%	19

AVAILABILITY:

Sheet size: 1.5 m x 1.5 m

Thickness range: 0.4 mm to 2.0 mm

For applications in which a thickness greater than 2 mm is essential SF 3300 is recommended.

Also available with SARK III release coating on both sides.

PDS 232 04/99

This Data Sheet relates to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same.

The acquisition of additional information may necessitate revision to parts, or all, of this Data Sheet, and such information will be supplied as it becomes available.

The information given and, in particular, any parameters, should be used for guidance purposes only. The Company does not give any warranty that the product will be suitable for the use intended by the Customer.

HEALTH AND SAFETY

Because of the binding processes which take place during manufacture, the product is believed to present no health and safety hazard and, under normal handling and use it is unlikely that the product will give rise to significant levels of exposure to constituent materials.

FLEXITALLIC AF 2100 is reinforced with glass fibres based on continuous filaments of controlled diameter well above the size recognised as respirable. Consequently this material contains NO RESIRABLE FIBRE.

Under harsh mechanical treatment (e.g. high speed stamping operations or abrasion) or if the product has become embrittled by high temperature applications, the constituents may give rise to irritant dust which, in extreme cases of exposure, could lead to more serious respiratory problems. Occupational exposure to such dusts should therefore be minimised and kept below relevant national exposure limits. Good standards of hygiene should be applied during gasket cutting operations and off-cuts should be disposed of by transfer to a site appropriately licensed to accept industrial materials of this nature.

Although the reinforcing fibres and fillers are inherently flame resistant, at elevated temperatures or in a sustained fire, decomposition will occur and give rise to irritant and in some instances harmful or toxic fumes.

For more detailed information, reference must be made to our Health and Safety Bulletin, Sections 1, 2, 2.3, 2.9 (calcium carbonate, amorphous silica, barium sulphate), 2.12, 3 and 3.1. This will enable you to carry out any necessary assessment of risk which may be required under national or local legislation.