



FLEXITALLIC LIMITED

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PRELIMINARY DATA SHEET

**PRODUCT
REFERENCE:**

FLEXITALLIC THERMICULITE 715

DESCRIPTION:

Thermiculite 715 is a superior performance sheet sealing material comprising chemically exfoliated and thermally exfoliated vermiculite with aramid and synthetic fibres bound with a high quality nitrile rubber.

Thermiculite 715 complies with the requirements of the BS 7531 Grade X Specification.

COLOUR:

Pale brown

SERVICE:

Thermiculite 715 is a high performance material suitable for use in a wide range of demanding and general industrial sealing applications. The material possesses excellent resistance to most chemical media and is suitable for sealing steam, acids, alkalis and virtually all general industrial chemicals.

Maximum recommended temperature: 540°C (1000°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.

The recommended maximum continuous service temperature for 1.5 mm thick Thermiculite 715 is 450°C (850°F).

Do NOT use gasket pastes

TYPICAL PHYSICAL PROPERTIES:

Thickness		1.5 mm
Density	gcm⁻³	1.73
ASTM Compressibility	%	12
ASTM Recovery	%	41
BS Stress Retention @ 300°C	MPa	25
BS Gas Permeability	mL/min	<0.1
ASTM Tensile Strength	MPa	9
Thickness Increase ASTM Oil 3	%	1.4
Thickness Increase ASTM Fuel B	%	0.2
Weight Increase ASTM Oil 3	%	17.7
Weight Increase ASTM Fuel B	%	11.3
ASTM F38 Creep Relaxation	%	42.9
ASTM F37 Liquid Leakage (Fuel A at 10 psi; Gasket Stress 1000 psi)	mL/hour	1.4
ASTM F37 Liquid Leakage (Fuel A at 50 psi; Gasket Stress 1000 psi)	mL/hour	12.3
Thermal Conductivity	W/m/K	0.3

AVAILABILITY:

Sheet size: 1.5 m x 1.5 m
Thickness range: 0.75 to 3 mm

This Data Sheet refers 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.

We reserve the right to change the details given on this Data Sheet as additional information is acquired.

Customers requiring the latest version of this Data Sheet should contact our Applications Engineering Department.

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 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 Thermiculite 715 contains chemically and thermally exfoliated vermiculite, aramid and synthetic fibres and a nitrile rubber binder.

Under harsh mechanical treatment (e.g. high speed stamping operations or abrasion) 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. Flexitallic has adopted an in-house fibre Control Limit of 0.5 fibres per millilitre of air (8 hour TWA) for fibres that may be respirable. 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.

For more detailed information, reference must be made to our Health & Safety Bulletin, Sections 1,2, 2.2,2.5,2.12,2.17,3,and 3.1. This will enable you to carry out any necessary assessment of risk which may be required under national or local legislation.