

PRODUCT DATASHEET

THERMICULITE® 715



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.

Thermiculite®
innovative. versatile. complete.

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 & Safety

For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic Ltd.

Service:

Thermiculite® 715 is a high performance coreless 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.

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

Maximum recommended temperature:
540°C (1000°F)

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

Note:

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

Proprietary release agents are applied.

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

Do NOT use gasket pastes.

Availability:

Sheet size:
1.5m x 1.5m

Thickness range:
0.75mm to 3mm

Colour: Brown

Typical Physical Properties:

Thickness	1.5mm
Density	1.8gcm ⁻³
ASTM Compressibility	10%
ASTM Recovery	45%
BS Stress Retention @ 300°C	25MPa
BS Gas Permeability	< 0.1mL/min
ASTM Tensile Strength	9MPa
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)	1.4mL/hour
ASTM F37 Liquid Leakage (Fuel A at 50 psi; Gasket Stress 1000 psi)	12.3mL/hour
Thermal Conductivity	0.3W/m/K