

FLEXITALLIC THERMICULITE® 715



Service

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® 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.

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.

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

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|------------------|---------------|
| Sheet size: | 1.5 m x 1.5 m |
| Thickness range: | 0.75 to 3 mm |
| Colour: | Brown |

Typical Physical Properties

| | | |
|---|-------------------|------|
| Thickness | 1.5 mm | |
| Density | g/cm ³ | 1.8 |
| ASTM Compressibility | % | 10 |
| ASTM Recovery | % | 45 |
| BS Residual Stress @ 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 |

Warranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.

