

PRODUCT DATASHEET

THERMICULITE® 815



Thermiculite® 815 is a high temperature, chemically resistant sheet sealing material comprising exfoliated vermiculite reinforced with a tanged stainless steel core.

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 UK Ltd.

Service:

Thermiculite® 815 is comprised of a tanged 316 Stainless Steel core faced with a high performance vermiculite based sealing material. The metallic core provides improved blow out resistance, handling and cutting characteristics.

Thermiculite® 815 is suitable for use in a wide range of sealing applications. The material is capable of effecting a high integrity seal at extremes of temperature. Typical applications involve sealing superheated high pressure steam, strong oxidising media and high temperature gas & exhaust systems.

Maximum recommended temperature:

1050°C (1920°F)

Maximum service pressure:

20MPa (200 bar; 2900 psi)

Materials:

Facing material: Thermiculite®

Reinforcement: Tanged 316 Stainless Steel UNS S31600

Bond Type: Mechanical

Note:

This product is NOT intended for, and is NOT suitable for use as the facing for Flexitallic Flexpro™ gaskets.

API607 Fire-Safe

Availability:

Sheet size:

1.0m x 1.0m

1.5m x 1.5m

For gaskets outside sheet size please contact Flexitallic Applications Engineering Department

Thickness range:

1.0mm to 3.0mm

Colour: Golden

Typical Physical Properties:

| | | |
|----------------------------------|----------------------|----------------------|
| Thickness | 1.5mm | 3.0mm |
| Facing Density | 1.2gcm ⁻³ | 1.2gcm ⁻³ |
| ASTM F36A Compressibility | 44% | 44% |
| ASTM F36A Recovery | 9% | 8% |
| BS 7531 Gas Permeability | 0.13mL/min | 0.17mL/min |
| BS 7531 Stress Retention @ 300°C | 31MPa | 17MPa |
| Sulphur Content | < 50ppm | < 50ppm |
| Chloride Ion Content | < 50ppm | < 50ppm |