

PRODUCT DATASHEET

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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 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)

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

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

The Flexitallic Group

Disclaimer

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.