

## PRODUCT DATASHEET

# THERMICULITE® 835

Thermiculite® 835 is a critical service gasket designed for use in applications involving high temperatures and/or aggressive chemical media. It is comprised of a spirally wound sealing element composed of a metal winding wire in combination with a vermiculite based filler material.

**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:

The gasket can be supplied with inner and/or outer centering/compression stop rings or in sealing element form. The spiral construction provides excellent sealing performance and confers high levels of gasket resilience.

Thermiculite® 835 gaskets are suitable for use in a wide range of sealing applications. They are capable of effecting a high integrity seal in the most demanding environments and are particularly suited to applications involving extremes of Thermal or mechanical cycling. Typical applications include superheated steam, strong oxidising media and elevated temperature service. Metallic components, winding strip and rings, can be selected to suit specific applications.

Maximum recommended temperature:  
980°C (1800°F)

Maximum recommended pressure:  
ASME B16.5 2500lb  
API 6FB Fire-Safe

### Typical Physical Properties:

Thickness	0.5mm
Density	1.2 to 1.3gcm <sup>-3</sup>
ASTM tensile strength	4.3 Mpa
Leachable chloride ion content	< 50 ppm
Leachable fluoride ion content	< 50 ppm

### Materials:

Filler material: Thermiculite 835

Winding strip: Typical stainless 316L  
(Others available)

Centering/Compression ring(s):  
Typical stainless 316 (Others available)

Thermiculite® 835 gaskets are available in various styles, R, CG and CGI to various standards, ASME, DIN, EN etc. They can also be manufactured to customer drawings for non-standard vessel and heat exchanger applications.

Sealing Element	R
Outer Ring Only	CG
Outer & Inner Ring	CGI
Inner Ring Only	RIR

### Availability:

Gasket size: Up to 3000mm

Thickness range: 1.6mm to 7.2mm

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### Health & 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.

Thermiculite® 835 is a semi metallic gasket of spiral construction containing exfoliated vermiculite with metallic components.

Under harsh mechanical treatment (e.g. high speed abrasion etc.) 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.

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.

The metallic component is selected for the particular application every effort is made to remove sharp edge and or burrs so as to minimise laceration risks.

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