

**PRODUCT REFERENCE:** FLEXITALLIC THERMICULITE 835

**DESCRIPTION:** Flexitallic 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. 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.

**SERVICE:** Flexitallic 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

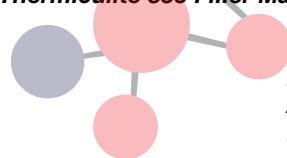
**CONSTRUCTION:** Filler material: Thermiculite 835  
Winding strip: Typical stainless 316L (Others available )  
Centering/Compression ring(s): Typical stainless 316 (Others available)

Flexitallic 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 |

**TYPICAL PHYSICAL PROPERTIES:**

**Thermiculite 835 Filler Material**



|                                |                   |            |
|--------------------------------|-------------------|------------|
| Thickness                      | mm                | 0.5        |
| Density                        | gcm <sup>-3</sup> | 1.2 to 1.3 |
| ASTM Tensile Strength          | MPa               | 4.3        |
| Leachable chloride ion content | ppm               | < 50       |
| Leachable fluoride ion content | ppm               | < 50       |

**AVAILABILITY:** Gasket size: Up to 3,000 mm  
Thickness range: 1.6 mm to 7.2 mm

## **HEALTH AND 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.***

***Flexitallic 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 more detailed information, reference must be made to our Health and Safety Bulletin, Sections 1, 2, 2.11, 3 and 3.2. This will enable you to carry out any necessary assessment of risk which may be required under national or local legislation.***

