



**FLEXITALLIC
THERMICULITE
845**

FLEXITALLIC LIMITED

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PRODUCT REFERENCE: FLEXITALLIC THERMICULITE 845

DESCRIPTION: Flexpro 845 is a critical service gasket designed for use in applications involving high temperatures and/or aggressive chemical media. It is comprised of a serrated metal core onto which is bonded a vermiculite based sealing face. The metallic core provides gasket rigidity and blow-out resistance while the soft Thermiculite 845 facing provides exceptional sealing performance.

SERVICE: Flexpro 845 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, even in load compromised situations. Typical applications include superheated steam, strong oxidising media and elevated temperature service. The metallic core material can be selected to suit specific applications.

Maximum recommended temperature : 980°C (1800°F)
Maximum recommended pressure : ASME B16.5 2500lb

CONSTRUCTION: Facing material: Thermiculite 845
Serrated metallic core: Typical stainless 316 (Others available)
Adhesive: Synthetic Rubber

Flexpro is available in various styles, various profiles in various configurations. Flexpro are supplied in original DIN2697 style , with or without locating ring either intergral or loose . Other profiles available include shallow profile, modified shallow or ball profile. Core materials are available in all commercial grades of steel to allow exact matching to the application.

Sealing Element PN
Intergral Outer Ring ZG
Loose Outer Ring ZA

TYPICAL PHYSICAL PROPERTIES:

Thickness (Facing Only)		0.5 mm
Density	gcm ⁻³	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 5,000 mm
Thickness range: 2.0 mm to 5.0 mm

PDS 369 01/08

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 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.

Flexpro 845 is a semi metallic laminate containing exfoliated vermiculite reinforced with a serrated metallic core.

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 core is selected for the particular application and is machine finished to remove sharp edge or burr so that ppe are kept to a minimum.

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.