PRODUCT DATASHEET

THERMICULITE® 894

Thermiculite® 894 is a flexible gasket / compression packing, manufactured with the proprietary Flexitallic Thermiculite® critical service sealing materials.

Thermiculite®

SERVICE:

Thermiculite® 894 is made by over-knitting strips of Thermiculite foil with a fine (0.09mm diameter) Inconel 600 wire and then braiding a number of those Thermiculite / Inconel strips to produce a square section sealing material available in continuous coil form.

Thermiculite® 894 is intended for high temperature and / or aggressive media applications where a flexible gasket / packing is required. Such applications include but not limited to oven door seals, very large diameter flanges and in the production of industrial fertilizers.

This material can also be used in conventional high temperature valve stem sealing systems for on-off or isolation valves. Alternatively, as the header rings either side of a conventional valve stem sealing stack it can provide an oxidation barrier for the standard graphite components.

Please contact Flexitallic's applications engineering team for technical advice.

Maximum recommended temperature: 1050°C (1920°F)

pH range: 0 to 14

AVAILABILITY:

The following square section material is available in coils:

5.0mm

6.0mm - 6.5mm

8.0mm

9.5mm - 10.0mm

12.0mm - 12.5mm

15.0mm

19.0mm

Standard coil lengths are 8m and 20m for small section sizes.

Rectangular cross-sections are possible; please ask about particular section sizes and coil length requirements.

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HEALTH & SAFETY:

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® 894 contains vermiculite, steatite, Inconel wire and a small percentage of nitrile rubber.

Under harsh mechanical treatment (e.g. abrasion) or if the product has become friable by high temperature applications, 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 cutting, installation and removal and any residues should be disposed of by transfer to a site appropriately licensed to accept industrial materials of this nature.

Although vermiculite and steatite are non-flammable, at elevated temperatures or in a sustained fire, decomposition of the small percentage of rubber binder will occur and give rise to irritant and in some instances harmful or toxic fumes.

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