



FLEXITALLIC LIMITED

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PRODUCT REFERENCE: FLEXITALLIC 304

DESCRIPTION: Flexitallic 304 is constructed by braiding carbon fibre yarn, pre-treated with high performance lubricants, around a core reinforced with a wire to aid packing extraction. A corrosion inhibitor and sacrificial metal are included. In addition, the packing is treated with a graphite coating to further enhance sealing performance at high temperatures.

SERVICE: Flexitallic 304 is a high performance pump and valve packing. It is particularly suitable for use in stainless steel equipment handling high temperature and high pressure fluids, where corrosion problems may be encountered. Typical industries include petrochemical, chemical and power generation.

pH Range	0 to 14*
Temperature Range	-85 degC to +430 degC**
Maximum Pressure	210 bar
Maximum Shaft Speed	20 m/s
Maximum Free Chloride	100 ppm

- Not recommended for use with strong oxidising agents or molten alkali metals.

** General applications. Suitable for higher temperatures in non-oxidising/inert media.

AVAILABILITY: The following square section material is available in coils or as pre-formed rings:

mm	3.0,	4.0,	6.5,	8.0,	9.5,	12.5
mm	14.0,	16.0,	19.0,	22.0,	25.0	

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.

FLEXITALLIC 304 contains carbon fibre yarn and high temperature lubricants.

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 packing residues should be disposed of by transfer to a site appropriately licensed to accept industrial materials of this nature.

Although the reinforcing fibres are non-flammable, at elevated temperatures or in a sustained fire, decomposition will occur and give rise to irritant and in some instances harmful or toxic fumes.

For more detailed information, reference must be made to our Health and Safety Bulletin, Sections 1, 2, 2.6, 2.10, 3, and 3.4. This will enable you to carry out any necessary assessment of risk which may be required under national or local legislation.

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