



FLEXITALLIC LIMITED

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**PRODUCT
REFERENCE:**

FLEXITALLIC GR160

DESCRIPTION:

Flexitallic GR160 are die-formed graphite rings manufactured from high purity (99.85%), nuclear grade, exfoliated graphite foil.

SERVICE:

Flexitallic GR160 has been primarily developed as a high performance valve packing, however, it is suitable for sealing rotating or reciprocating pumps. In addition, Flexitallic GR160 possesses excellent chemical resistance and consequently can be used to seal a wide range of chemical media including, oils, solvents, acids and alkalis.

| | |
|-----------------------------------|--------------------------------|
| pH Range | 0 to 14* |
| General Temperature Range | -200 degC to 500 degC** |
| Maximum Steam Temperature | 650 deg C |
| Maximum Pressure | 500 bar |
| Maximum Shaft Speed | 15 m/s |
| Maximum Leachable Chloride | 50 ppm |
| Maximum Ash Content | 0.1% |

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

*** General applications. Suitable for higher temperature applications in non-oxidising or inert media.*

WRAS Approved for use with potable water: Approval No. 0104504

AVAILABILITY:

Flexitallic GR160 is available in ring form, whole or split, in bore sizes from 3 mm to 460 mm. Standard material is 1.6 gsm-3, however, other densities are available on request.

PDS 739 01-02

This Data Sheet relates 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.

The acquisition of additional information may necessitate revision to parts, or all, of this Data Sheet, and such information will be supplied as it becomes available.

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 GR160 contains high purity graphite foil.

Under harsh mechanical treatment (e.g. abrasion) 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 constituents 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, 2.11, 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.

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