

Flexitallic 310

310 compression packing, is constructed by X-braiding high quality Carbon filament reinforced Graphite tape with a secondary reinforcement using additional strands of Carbon yarn.



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 & Safety

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



Flexitallic 310 can be used in valve stems, rotary and reciprocating applications handling most chemical media. Flexitallic 310 is particularly suitable for use in stainless steel equipment handling high temperature and high pressure fluids, where corrosion issues may be encountered. The additional strands of Carbon yarn reinforcement provides stability, resilience and anti-extrusion properties. This packing style does not damage / wear the shaft / spindle. Typical sealing applications include use in power generation (steam valves, boiler-feed pumps, condensate pumps etc), chemical and petrochemical industries. Suitable for most chemicals except strong oxidizing agents such as sulphuric and nitric acids in high concentrations, oleum and aqua-regia.

- Materials of construction: Graphite tape reinforced with carbon filaments and carbon fibre yarn.
- Colour: Black (shiny).
- Typical applications: Valve stems, mixers, rotary and reciprocating pumps.

Temperature: Maximum Minimum	430 °C (806 °F) / 650°C (1202 °F) in Steam -50 °C (-58 °F)
Pressure: Maximum	Rotating – 2.5 MPa (362 psi) Valve – 45 MPa (6525 psi) Reciprocating – 10 MPa (1450 psi)
Speed: Maximum	Rotating – 20 m/s (3937 fpm) Valve – 2 m/s (394 fpm) Reciprocating – 2 m/s (394 fpm)
pH Range	0 – 14
Standard Sizes (mm sq.)	3.2, 5.0 - 20m spools. 6.0, 6.5, 8.0, 9.5, 10.0, 11.0, 12.0, 12.5, 14.0, 14.5, 16.0, 18.0, 19.0, 22.0, 25.0 – 8m spools