Nexus Seals

Working With People to Engineer Solutions

# Style 2321

## Pump & Valve Packing

**Description**

Style 2321 packing is a Graphite enhanced Expanded PTFE braided packing with a Carbon fibre reinforcement. Style 2321 has been formulated specifically for use in slurry applications. This product is a dense and resilient product with the ability to withstand extrusion and abrasive wear while able to run at high speed due to the combination of graphite encapsulated PTFE and Carbon fibre.

**Construction**

Style 2321 is a braided packing constructed of a combination of Graphite filled Expanded PTFE and Carbon yarn which have been inter-braided into a dense, but flexible product. PTFE tape and Graphite have been locked together in such a manner that the maximum benefits are gained from both these wonderful materials. There are no added lubricants in the base yarn that can migrate out of this product; the lubrication is included in the yarn. However, the Carbon yarn has been impregnated with PTFE for start-up purposes.

**Application**

Style 2321 is ideally suited for pump applications due to its material characteristics. The ability of the base material (Graphite filled Expanded PTFE ) to remove heat from the surface contact area, while remaining flexible, makes this one of Industry's most widely used gland packing materials. Use in valves has also proven most successful due to the dense construction of the yarn, allowing no penetration by the sealed medium. Though this product has been developed specifically for slurry applications, it is used throughout all the different industries in almost every application imaginable, limited only by severe temperature and very strong oxidizers such as fuming Nitric Acid, Fluorine, Aqua Regia and Oleum.

**Size & Weight - Style 2321 Packing**

| mm | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|
| inch | 1/8 | 5/32 | 3/16 | 1/4 | - | 5/16 | 3/8 | 7/16 | 1/2 | - |
| m/kg | 70 | 32 | 27 | 17 | 13.6 | 10.5 | 7 | 5.51 | 4.5 | 4 |

| mm | 14 | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | - |
|---|---|---|---|---|---|---|---|---|---|---|
| Inch | 9/16 | - | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | - |
| m/kg | 3.3 | 3 | 2.6 | 2 | 1.8 | 1.6 | 1.38 | 1.16 | 1.03 | - |

**Specification**

| Item | UoM | Magnitude | |
|---|---|---|---|
| Dimensional Deviation | mm | Axial | 0.00 ~ +0.50 |
| | | Radial | 0.00 ~ -0.50 |
| Working Temperature | °C | -100 ~ +280 | |
| Pressure | bar | Rotary (Pumps) | 25 |
| | | Stationary (Valves) | 200 |
| Surface Speed | m/sec | 18 | |
| pH | pH | 2 - 13 | |
| Base Yarn | - | Graphite filled PTFE and Carbon | |
| Lubrication | - | PTFE | |