

1760

High Speed Pump Packing

Non-Abrasive, Less Wear, Longer Life

1760 is a unique packing developed by Chesterton®, consisting of a PTFE yarn lubricated with graphite particles. The finished packing is further lubricated with a special silicone oil for quick break-in.

Low Friction, and Higher Shaft Speed

This packings has an extremely low coefficient of friction, lower even than 100% PTFE fiber or combination PTFE fiber and PTFE suspensoid packings. The lubricants embedded in the tightly braided packings act as a heat transfer medium to dissipate heat generated at the pump shaft, allowing it to travel through the packing to the walls of the stuffing box. In addition, these unique high speed packings exhibit 13% less thermal expansion than pure PTFE packings for less frictional drag and lower heat at higher shaft speeds.

Non-Abrasive, Less Wear, and Longer Life

1760 is non-abrasive packing which will not damage pump shafts as would harsher, more abrasive packings. Yet, it is tougher than 100% PTFE packings, reducing the risk of extrusion at high pressure and shaft speed.

High Chemical Resistance for Plant-wide Use

1760 is designed for pH services 0 through 14 in most chemical applications. 1760 can be used in black liquor and all chemical pump applications with the exception of oleum, fuming nitric acid, aqua regia, fluorine and other strong oxidizing agents.

Technical Data

| | |
|----------------------------|--|
| Materials | Graphite coated PTFE yarn with break-in lubricants |
| Pressure Limit | 17 bar g (250 psig) |
| Shaft Speed | 18 m/s (3600 fpm) |
| Temperature Limit | 260°C (500°F) |
| Chemical Resistance | pH 0 to 14 |

* Consult Chesterton Application Engineering for concerns on compatibility



Strong and dense PTFE fiber packing for chemical applications with the heat dissipating properties of graphite.

- pH 0 – 14
 - Use throughout the plant; reduce inventory and increase maintenance efficiency
- Unlimited shelf life
 - Eliminate the cost of wasted packing due to spoilage; obtain more effective use of your company's storage facilities.
- Tightly braided
 - Better leakage control, less product absorption, longer life, and less fraying.
- Dense
 - Better filling capacity in stuffing box; minimum voids in packing results in fewer leak paths, less product loss and less wicking.
- Excellent gland load transfer through the entire set
 - Excellent leakage control resulting in less product loss, increased production, higher profits, and a safer working environment.



Applications

Typical applications are black liquor pumps, chemical pumps, reciprocating pumps, agitators, and other rotating equipment in a variety of industries.

| Approximate Data | | | | | | |
|------------------|--------|-------------------------|--------------|----------------------------|--------------------|--------|
| Size | | Packaged $\pm 10\%$ | | Reorder Product No. | Lengths per Weight | |
| mm | Inch | Kg. | Lbs. | | M/Kg. | Ft/Lb. |
| 3,2 | 0.1250 | 0,908 | 2 | 008360 | 39,3 | 58.5 |
| 4,0 | — | 0,908 | 2 | 008361 | 35,9 | 53.4 |
| 4,8 | 0.1875 | 0,908 | 2 | 008369 | 25,6 | 38.1 |
| 6,0 | — | 0,908 | 2 | 008363 | 16,5 | 24.5 |
| 6,4 | 0.2500 | 0,908 2,270 | 2 5 | 008364 008373 | 15,1 | 22.5 |
| 8,0 | 0.3125 | 0,908 2,270 | 2 5 | 008365 008374 | 10,3 | 15.4 |
| 9,5 | 0.3750 | 0,908 2,270 4,540 | 2 5 10 | 008366 008375 008381 | 7,1 | 10.5 |
| 10,0 | — | 0,908 2,270 | 2 5 | 008367 008376 | 6,7 | 9.9 |
| 11,1 | 0.4375 | 0,908 2,270 | 2 5 | 008368 008377 | 5,2 | 7.8 |
| 12,0 | — | 0,908 2,270 | 2 5 | 008369 008378 | 4,4 | 6.6 |
| 12,7 | 0.5000 | 0,908 2,270 4,540 | 2 5 10 | 008370 008379 008383 | 4,1 | 6.1 |
| 14,3 | 0.5625 | 2,270 4,540 | 5 10 | 008380 008384 | 3,2 | 4.7 |
| 15,9 | 0.6250 | 4,540 | 10 | 008385 | 2,6 | 3.8 |
| 17,5 | 0.6875 | 4,540 | 10 | 008386 | 2,1 | 3.1 |
| 19,1 | 0.7500 | 4,540 | 10 | 008387 | 1,8 | 2.7 |
| 22,2 | 0.8750 | 4,540 | 10 | 008389 | 1,4 | 2.1 |
| 25,4 | 1.0000 | 4,540 | 10 | 008394 | 1,1 | 1.6 |

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