

Product Description

John Crane combines the high strength of polyimide with the chemical inertness of PTFE to create this unique packing, 1345. Designed to handle abrasive services at high pressures and shaft speeds, this product is also very forgiving on shafts and sleeves, resulting in significantly reduced replacement costs of wear parts.

This asbestos-free product is tightly interlace braided and squared to ensure maximum sealing. It also requires minimum field adjustment due to its excellent conformability and resilience. These yarns are used to cover a wide range of fluids.

Construction/Features

Continuous filament polyimide yarns are integrated with continuous filament PTFE yarns during the braiding process. Polyimide yarns provide excellent wear resistance without scoring the shaft or sleeve. The PTFE yarns enhance the chemical compatibility of the packing.

Both yarns are permeated throughout with a PTFE dispersion and a high-temperature lubricant. The PTFE dispersion enhances chemical resistance, lubricity, and sealability of the packing, resulting in extended life. The high-temperature lubricant assists with start-up and break-in.

Other versions of this polyimide packing are available.

Performance Capabilities

- Temperature:
Up to 290°C/550°F
- Pressure:
Pump Up to 34 bar/500 psi
Valve Up to 197 bar/2900 psi
- Speed:
Up to 13 m/s/2500 fpm
- pH Range:
0 to 10

Industries Served

- Chemical Processing
- General Industry
- Marine
- Mining
- Municipal
- Oil and Refinery
- Power Generation
- Pulp and Paper
- Steel/Metals



**1345****Chemical & Abrasion Resistant Polyimide Packing****Applications**

1345 makes an excellent universal packing in a number of pulp and paper applications, including stock pumps, lime pumps, pulpers, digesters, agitators, and mixers, and is capable of handling pulp and paper stock, liquors and caustics, mild acids, solvents, and water. It is also used in rotating equipment in metal and coal mining. Because of its ability to withstand abrasives and slurries without accelerating shaft/sleeve wear, it will provide reduced maintenance costs and downtime.

These packings are excellent choices for mixers and agitators, where abrasives can cause maintenance problems. Additional applications include salt water and brine pumps in the marine industry and wastewater and sludge pumps in water treatment purification. 1345 can be found in centrifugal, reciprocating, and rotary gear pumps, as well as on rising and rotating stem valves.

Note: For additional application or product information, contact your local John Crane Sales/Service Engineer or the John Crane Packing Division at 1-800-647-2548.

Standard Sizes

1345 is available in standard cross-section sizes from 3/16" to 1" in 1/8" increments. As Rite-Pak™ spools, these standard sizes are available for immediate shipment. Metric and larger sizes are available upon request.

Packing can be die-formed to exact dimensions for ease of installation and enhanced performance.

Rite-Pak is a trademark of John Crane Inc.

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For your nearest John Crane facility, please contact one of the locations above.

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated.