



COMPRESSION PACKING

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PTFE Packing

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PTFE Filament, Dry (Style 2005)

Application

Style 2005 is a firm, high density interlock braided packing manufactured from pure PTFE filaments pretreated with PTFE dispersion, but contains no other lubricants. The PTFE dispersion provides a low friction surface finish and prevents leakage through the braid.

Style 2005 is commonly used in valves and lower shaft speed applications. It is resistant to most chemicals, aggressive fluids, gases and solvents, with the exception of molten alkali metals.

Service Limits		
Type	Description	Value
Temperature	Minimum	-400°F (-240°C)
	Maximum	540°F (280°C)
Pressure	Rotating	290 psi (20 bar)
	Reciprocating	2150 psi (150 bar)
	Static	3600 psi (250 bar)
Shaft Speed		984 fpm (5 m/s)
pH		0-14

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PTFE Filament, FDA Approved (Style 2006FDA)

Application

Style 2006FDA is a firm, pliable interlock braided packing manufactured from the purest PTFE filaments. A proprietary food grade lubricant provides faster break-in and reduced shaft wear. Style 2006FDA complies with the FDA and USDA requirements under Title 21 Food and Drugs:

Part 177.1500 - Perfluorocarbon Resins

Part 178.3570 - Lubricants with Incidental Food Contact

Style 2006FDA resists most caustic media and is commonly used in centrifugal and rotary food processing equipment. It is also used in blenders, mixers, cookers, dryers and pumps.

Service Limits		
Type	Description	Value
Temperature	Minimum	-148°F (-100°C)
	Maximum	530°F (280°C)
Pressure	Rotating	290 psi (20 bar)
	Reciprocating	435 psi (30 bar)
Shaft Speed		2350 fpm (12 m/s)
pH		0-14

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gPTFE Filament (Style 2007)

Application

Style 2007 packing is an interlock braid, utilizing Teadit's EG2 PTFE/graphite yarn and a high temperature break-in lubricant. EG2 yarn is formed from expanded PTFE in which fine particles of pure graphite have been encapsulated. The resulting packing combines the chemical resistance of PTFE with the heat dissipation characteristics of graphite, thus allowing much higher shaft speeds than conventional PTFE packing.

Style 2007 is chemically inert over the entire 0-14 pH range with these exceptions: molten alkali metals, fluorides, alum, fuming nitric acid, aqua regia, and other strong oxidizing agents. This style is an excellent general service and corrosive service packing. It is commonly used in pumps, valves, rotating and reciprocating shafts, mixers and agitators, and is especially designed for services involving surface speeds and temperatures higher than those that can be handled by pure PTFE packing.

Service Limits		
Type	Description	Value
Temperature	Minimum	-328°F (-200°C)
	Maximum	540°F (280°C)
Pressure	Rotating	500 psi (35 bar)
	Reciprocating	1450 psi (100 bar)
	Static	2900 psi (200 bar)
Shaft Speed		4900 fpm (25 m/s)
pH		0-14

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Flexible Graphite with Carbon Corners (Style 2002)

Application

Style 2002 packing is manufactured from pure carbon yarn, which is interlock braided and impregnated with proprietary lubricants and graphite particles which fill voids, block leakage, and act as a break-in lubricant. The end product has a low coefficient of friction and tends to wear more evenly than most braided packing.-

Style 2002 handles water, steam, boiler feed, and aqueous solutions of acids and alkalis. In service, it seats quickly and does not require extensive break-in adjustments. This style is commonly used for high speed pumps, blowers, dryers, high temperature valves, and furnace gasketing.

Service Limits		
Type	Description	Value
Temperature	Minimum	-400°F (-240°C)
	Maximum	
	In air	840°F (450°C)
	In steam	1200°F (650°C)
Pressure	Rotating	365 psi (25 bar)
	Reciprocating	1450 psi (100 bar)
	Static	4350 psi (300 bar)
Shaft Speed		4000 fpm (20 m/s)
pH		0-14 (except strong oxidizers)

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Flexible Graphite with Carbon Corners (Style 2202)

Application

Style 2202 packing is diagonally braided from pure, expanded flexible graphite, reinforced at the corners and throughout with high-quality carbon fibers. The carbon fiber reinforcement in the corners and body of the packing makes it three times more resistant to extrusion and also increases the pressure handling capabilities compared to non-reinforced flexible graphite packing.

Style 2202 is an extremely versatile packing can be used in many demanding applications, both dynamic and static. This style packing is particularly suited for high temperature and high pressure service in valves, pumps, expansion joints, mixers and agitators. It can handle most chemicals in the 0-14 pH range with the exception of strong oxidizers.

Service Limits		
Type	Description	Value
Temperature	Minimum	-400°F (-240°C)
	Maximum	
	In air	842°F (450°C)
	In steam	1200°F (650°C)
Pressure	Rotating	365 psi (25 bar)
	Reciprocating	1450 psi (100 bar)
	Static	4350 psi (300 bar)
Shaft Speed		4000 fpm (20 m/s)
pH		0-14 (except strong oxidizers)

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Flexible Graphite With Inconel[®] Wire Jacket (Style 2236)

Application

Style 2236 packing is composed of layers of flexible graphite tape plied into compact strands, with each filament reinforced with an Inconel[®] wire jacket. These individual strands are then square braided to form a dense malleable packing. Outwardly it is then impregnated with lubricating agents to reduce stem friction.

This packing was developed to operate in valve applications that are designed for hydrocarbons and steam at high pressure. Style 2236 packing is an ideal solution for containment of fugitive emissions in extreme applications found in refineries, petrochemical plants, and thermal electricity generating stations.

Service Limits		
Type	Description	Value
Temperature	Minimum	-400°F (-240°C)
	Maximum	
	Steam	1200°F (650°C)
	Atmosphere	850°F (455°C)
Pressure	Valve	6500 psi (450 bar)
pH		0-14 (except strong oxidizers)

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Synthetic with PTFE, Lubricated (Style 2019)

Application

Style 2019 is an interlock braid using carded synthetic yarns thoroughly impregnated with PTFE suspensoid. The finished packing is again coated with PTFE dispersion and a break-in lubricant is added to reduce shaft wear and eliminate glazing at start up.

Style 2019 is an excellent multi-service packing that finds a wide variety of uses throughout a plant. It handles steam, water, solvents, oils, mild acids and alkalis, and a broad range of other chemicals. It is white in color and will not discolor the flow media. This style is recommended for use in centrifugal, rotary and reciprocating pumps and also mixers, agitators, and expansion joints.

Service Limits		
Type	Description	Value
Temperature	Minimum	-150°F (-100°C)
	Maximum	450°F (230°C)
Pressure	Rotating	300 psi (20 bar)
	Reciprocating	1160 psi (80 bar)
	Static	1450 psi (100 bar)
Shaft Speed		2350 fpm (12 m/s)
pH		2-12

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