



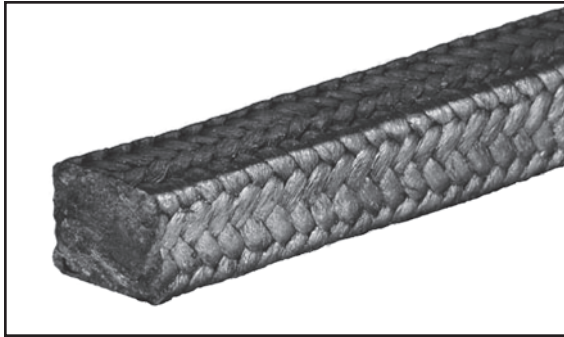
Packing and Packing Products



DEMAND QUALITY... DEMAND U.S. SEAL MFG.

PACKING - STYLE 58

Graphited / PTFE Braided Packing for General and Chemical Service



Performance Capabilities

- Temperature
-350°F to +500°F
- Pressure
Pump Up to 20 bar / 300 psi
Valve Up to 275 bar / 4000 psi
- Speed
15 mps / 3000 fpm
- pH Range
0 to 14

Construction Features

Interlace Braid
Style 58 has individual continuous filament yarns which are impregnated with a high-purity graphite and high-temperature lubricant.

The graphite and lubricant assist with break-in, reduce friction, and dissipate heat throughout the stuffing box.

Call U.S. Seal Mfg. for additional styles and sizes.

Product Description

Style 58 combines the chemical-resistant and low-friction generation characteristics of continuous PTFE filament yarns with the superior heat dissipation and self-lubricating properties of graphite.

An excellent choice for chemical resistance, this nonabrasive packing provides excellent conformability, adjustability and flexibility. A superior, low-maintenance choice where minimum field adjustment and fast break-in and start-up are necessary.

Style 58 Packing is ideal for controlled leakage and extrusion resistance at high pressures and shaft speeds. When used as a multipurpose packing, inventory costs are greatly reduced.

Applications

Air, ammonia, chemicals, condensate, corrosives, gases, liquor, oils, paper stock, solvents, steam, and water

Typical Equipment

Agitators, digesters, expansion joints, mixers, pumps, reciprocating and rotating equipment, valve stems

Industries Served

- Agriculture
- Chemical
- General Industry
- Marine
- Municipal
- Oil and Gas
- Pharmaceutical
- Power Generation
- Pulp and Paper
- Steel and Metals

One Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012501058	89.93
3/16"	USP-018701058	39.34
1/4"	USP-025001058	22.01
5/16"	USP-031201058	14.13
3/8"	USP-037501058	9.78
7/16"	USP-043701058	7.20
1/2"	USP-050001058	5.50
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

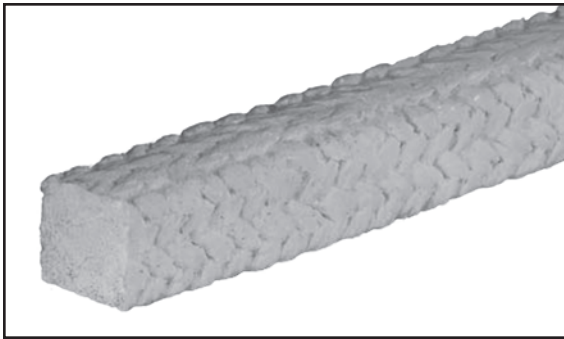
Five Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012505058	449.64
3/16"	USP-018705058	196.70
1/4"	USP-025005058	110.06
5/16"	USP-031205058	70.66
3/8"	USP-037505058	48.91
7/16"	USP-043705058	36.02
1/2"	USP-050005058	27.51
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Ten Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	—	—
3/16"	—	—
1/4"	—	—
5/16"	—	—
3/8"	—	—
7/16"	—	—
1/2"	—	—
9/16"	USP-056210058	43.56
5/8"	USP-062510058	35.22
3/4"	USP-075010058	24.46
7/8"	USP-087510058	17.97
1"	USP-100010058	13.74

Replaces: American Braiding - 8000T, 8100BIL, 8200BIL / Chemstar - 165, 165LA, 3165 / Chesterton - 1750, 1760
Garlock - Packmaster 6, 5100 / John Crane - C1070 / Marlo - 462 / New England Braiding - 102
Palmetto 1389 / Phelps - 2024 / Sepco - ML 3600, ML 4002, ML 8002 / Teadit - 2007 / Utex - 210, 244, 246

PACKING - STYLE 302

PTFE / Synthetic Braided Packing for General Service



Performance Capabilities

- Temperature
-170°F to +500°F
- Pressure
Pump Up to 20 bar / 300 psi
Valve Up to 68 bar / 1000 psi
- Speed
Up to 11 mps / 2250 fpm
- pH Range
2 to 12

Construction Features

Interlace Braid

Style 302 has spun synthetic fibers thoroughly impregnated with PTFE dispersion plus a general service compatible lubricant.

Call U.S. Seal Mfg. for additional styles and sizes.

Product Description

Style 302 is a cost effective general service packing. It contains no graphite.

Constructed of the highest quality synthetic fibers and lubricants. Designed to handle a wide range of fluids at moderate to high temperatures, pressures and shaft speeds.

Style 302 packing is thoroughly impregnated with PTFE in order to enhance chemical resistance, lubricity and dimensional stability. This helps to ensure even gland load distribution, promoting longer packing life.

Applications

Gases, mild acids and caustics, non abrasives, oils, solvents, steam, water

Typical Equipment

Rotating and reciprocating equipment, valves and expansion joints

Industries Served

- Agriculture
- General Industry
- Marine
- Municipal
- Oil and Gas
- Power Generation
- Pulp and Paper
- Wastewater

One Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012501302	116.28
3/16"	USP-018701302	54.73
1/4"	USP-025001302	29.06
5/16"	USP-031201302	18.66
3/8"	USP-037501302	12.91
7/16"	USP-043701302	9.51
1/2"	USP-050001302	7.27
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Five Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012505302	581.40
3/16"	USP-018705302	273.67
1/4"	USP-025005302	145.31
5/16"	USP-031205302	93.28
3/8"	USP-037505302	64.54
7/16"	USP-043705302	47.55
1/2"	USP-050005302	36.33
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Ten Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	—	—
3/16"	—	—
1/4"	—	—
5/16"	—	—
3/8"	—	—
7/16"	—	—
1/2"	—	—
9/16"	USP-056210302	57.50
5/8"	USP-062510302	40.84
3/4"	USP-075010302	32.28
7/8"	USP-087510302	23.72
1"	USP-100010302	18.16

Replaces: American Braiding - 3000N, 3000T / Chemstar - 1152, 11621B / Chesterton - 412W, 1710, 1774
Garlock - Packmaster 1, 7223, 8922 / John Crane - 1335 / Marlo - 250 / New England Braiding - 142
Palmetto 1347AF, 1392 / Phelps - 2072, 2172 / Sepco - ML2225, ML2550 / Teadit - 2019 / Utex - 234, 237

PACKING - STYLE 303

Graphite / Synthetic Braided Packing for General Service



Product Description

Style 303 is a cost effective graphite-coated general service packing constructed of the highest quality synthetic fibers and lubricants designed to handle a wide range of fluids at moderate to high temperatures, pressures, and shaft speeds.

Style 303 packing is thoroughly impregnated with lubricants to fill braided voids in order to reduce product penetration.

An external graphite coating is added for lubricity and to enhance heat dissipation for increased packing life.

Performance Capabilities

- Temperature
-170°F to +500°F
- Pressure
Pump Up to 20 bar / 300 psi
Valve Up to 68 bar / 1000 psi
- Speed
Up to 10 mps / 2000 fpm
- pH Rang
4 to 10

Applications

Gases, mild acids and caustics, non abrasives, oils, solvents, steam, water

Typical Equipment

Rotating and reciprocating equipment, valves and expansion joints

Construction Features

Interlace Braid
Style 303 has spun synthetic fibers treated with a proprietary blend of petroleum-based lubricants plus an external coating of graphite

Call U.S. Seal Mfg. for additional styles and sizes.

Industries Served

- Agriculture
- General Industry
- Marine
- Municipal
- Oil and Gas
- Power Generation
- Pulp and Paper
- Wastewater

One Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012501303	151.52
3/16"	USP-018701303	72.52
1/4"	USP-025001303	33.32
5/16"	USP-031201303	25.91
3/8"	USP-037501303	17.94
7/16"	USP-043701303	13.21
1/2"	USP-050001303	10.09
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

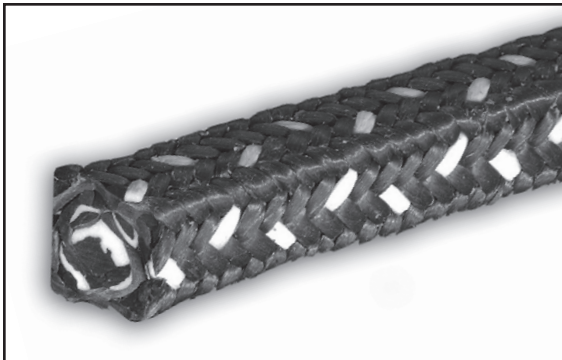
Three Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012503303	454.55
3/16"	USP-018703303	217.55
1/4"	USP-025003303	99.97
5/16"	USP-031203303	77.74
3/8"	USP-037503303	53.91
7/16"	USP-043703303	39.62
1/2"	USP-050003303	30.26
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Five Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	—	—
3/16"	—	—
1/4"	—	—
5/16"	—	—
3/8"	—	—
7/16"	—	—
1/2"	—	—
9/16"	USP-056205303	39.78
5/8"	USP-062505303	31.89
3/4"	USP-075005303	22.98
7/8"	USP-087505303	16.46
1"	USP-100005303	12.94

Replaces: American Braiding - 3000G / Chemstar - 1398, 1430 / Garlock - Packmaster 2 or 3
Garlock - 8909, 8913 / John Crane - 1340 / Marlo - 259 / New England Braiding - 142G
Palmetto 1007AF, 1030AF / Phelps - 2075, 2175, 2176 / Sepco - ML402 / Teadit - 2255 / Utex - 233, 236

PACKING - STYLE 310

Polyimide / PTFE Braided Packing for Severe Service



Performance Capabilities

- Temperature
-170°F to +550°F
- Pressure
Pump Up to 34 bar / 500 psi
Valve Up to 275 bar / 4000 psi
- Speed
13 mps / 2500 fpm
- pH Range
0 to 12

Construction Features

Lattice Braid

Product Description

Style 310 is an interlace braided polyimide and PTFE packing. It is impregnated with PTFE and a high temperature break-in lubricant for smoother start-ups.

This packing offers strength, abrasion and chemical resistance along with elevated temperature & pressure capabilities.

Shaft and/or sleeve wear is greatly reduced.

Applications

Abrasives, acids, asphalt, chemicals, mild caustics & liquors, solvents

Typical Equipment

Agitators, brine pumps, centrifugal and rotary pumps, coal slurry pumps, mixers, pulpers, refiners, sludge pumps, stock pumps, valves

Industries Served

- Chemical & Pharmaceutical
- Marine
- Mining & Minerals
- Municipal
- Oil & Gas
- Power Generation
- Pulp & Paper
- Steel & Metals
- Wastewater

One Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	N/A	—
3/16"	USP-018701310	47.20
1/4"	USP-025001310	27.80
5/16"	USP-031201310	17.90
3/8"	USP-037501310	12.50
7/16"	USP-043701310	9.20
1/2"	USP-050001310	7.00
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

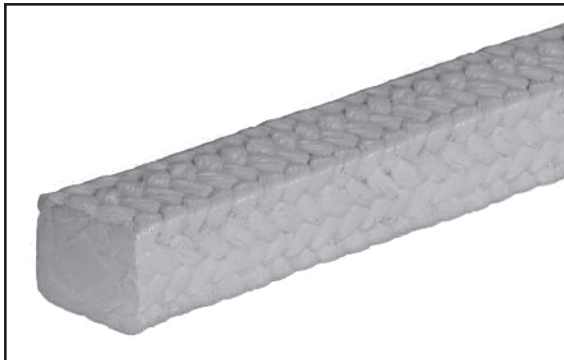
Five Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	N/A	—
3/16"	USP-018705310	236.00
1/4"	USP-025005310	139.00
5/16"	USP-031205310	89.50
3/8"	USP-037505310	62.50
7/16"	USP-043705310	46.00
1/2"	USP-050005310	35.00
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Ten Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	—	—
3/16"	—	—
1/4"	—	—
5/16"	—	—
3/8"	—	—
7/16"	—	—
1/2"	—	—
9/16"	USP-056210310	52.00
5/8"	USP-062510310	42.00
3/4"	USP-075010310	29.00
7/8"	USP-087510310	21.00
1"	USP-100010310	16.00

Replaces: American Braiding - 320 / Chemstar - 1190 / Chesterton - 1727
Garlock - 1850 / John Crane - 1345 / Marlo - 270 / New England Braiding-162
Palmetto 1392 / Sepco - ML2400, ML6225, ML6225A / Teadit - 2777 / Utex - 248,279

PACKING - STYLE 792

PTFE (FDA Compliant) Braided Packing for Food and Beverage Service



Performance Capabilities

- Temperature
-450°F to +500°F
- Pressure
Pump Up to 20 bar / 300 psi
Valve Up to 170 bar / 2500 psi
- Speed
10 mps / 2000 fpm
- pH Range
0 to 14

Construction Features

Lattice Braid

Style 792's PTFE filament is compliant with FDA regulation 21 CFR 177.1550.

Product Description

Style 792 is a firm, yet pliable packing manufactured from the purest PTFE filaments.

Also an excellent choice for chemical resistance, this packing is free from color contamination for applications where color contamination can not be tolerated.

Style 792 contains a food grade lubricant which provides faster break-in and reduced shaft wear.

Applications

Food and Beverage packaging
Pharmaceutical production

Typical Equipment

Rotating and reciprocating equipment, valves

Industries Served

- Food and Beverage
- Pharmaceutical

One Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012501792	89.93
3/16"	USP-018701792	39.34
1/4"	USP-025001792	22.01
5/16"	USP-031201792	14.13
3/8"	USP-037501792	9.78
7/16"	USP-043701792	7.20
1/2"	USP-050001792	5.50
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Five Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	USP-012505792	449.64
3/16"	USP-018705792	196.70
1/4"	USP-025005792	110.06
5/16"	USP-031205792	70.66
3/8"	USP-037505792	48.91
7/16"	USP-043705792	36.02
1/2"	USP-050005792	27.51
9/16"	—	—
5/8"	—	—
3/4"	—	—
7/8"	—	—
1"	—	—

Ten Pound Box		
Cross Section	U.S. Seal Mfg. Part Number	Feet / Box
1/8"	—	—
3/16"	—	—
1/4"	—	—
5/16"	—	—
3/8"	—	—
7/16"	—	—
1/2"	—	—
9/16"	USP-056210792	43.52
5/8"	USP-062510792	35.22
3/4"	USP-075010792	24.46
7/8"	USP-087510792	17.97
1"	USP-100010792	13.74

Replaces: American Braiding - 244FDA / Chemstar - 154 FDA / Chesterton - 425, 1725
Garlock - 5904 / John Crane - C1056 / New England Braiding- 110
Palmetto 1367FS / Phelps - 2031 / Sepco - ML2236FDA / Teadit - 2006FDA / Utex - 245

PTFE LANTERN RING STRIP



Product Description

PTFE lantern rings are widely used in applications where outside lubrication is necessary in order to keep packing lubricated, cool, and flushed of abrasives and chemicals. The use of lantern rings greatly increases the life of compression packing, resulting in less maintenance and downtime over the life of the equipment.

PTFE lantern rings will handle a wide range of fluids, offering maximum corrosion resistance and, unlike metallic rings, will not gall or score shafts or sleeves. They have also been successfully used in bearing assemblies as a conduit for grease or oil. The lantern ring works in aiding movement of the lubricant without risk of contamination or excess stuffing box wear.

Performance Capabilities

- Temperature
-400°F to +500°F
- Pressure
Pump 68 bar / 1000 psi
- Speed
Not Applicable
- pH Range
0 to 14

Construction Features

4 Foot Strip

Applications

Air, ammonia, boiler feed water, chemicals, condensate, corrosives, gases, liquor, oils, paper stock, solvents, steam, water

Typical Equipment

Rotating and reciprocating equipment, valves

Industries Served

- Chemical
- General Industry
- Mining and Minerals
- Municipal
- Oil and Gas
- Pharmaceutical
- Power Generation
- Pulp and Paper
- Steel and Metals
- Wastewater

Height	Width	Part Number
1/4"	3/8"	USP-02500375LRS
5/16"	7/16"	USP-03120437LRS
3/8"	1/2"	USP-03750500LRS
7/16"	9/16"	USP-04370562LRS
1/2"	5/8"	USP-05000625LRS
9/16"	11/16"	USP-05620687LRS
5/8"	3/4"	USP-06250750LRS
3/4"	7/8"	USP-07500875LRS
7/8"	1"	USP-08751000LRS

Height	Width	Part Number
1/4"	1/2"	USP-02500500LRS
5/16"	5/8"	USP-03120625LRS
3/8"	3/4"	USP-03750750LRS
7/16"	7/8"	USP-04370875LRS
1/2"	1"	USP-05001000LRS
9/16"	1"	USP-05621000LRS
5/8"	1"	USP-06251000LRS
3/4"	1"	USP-07501000LRS
1"	1"	USP-10001000LRS

If the products featured will be used in a potentially dangerous and/or hazardous process, your U.S. Seal Mfg. representative should be consulted prior to their selection and use. In the interest of continuous development, U.S. Seal Mfg. reserves 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.

PACKING ACCESSORIES



PACKING HOOKS - "T" Handled, Flexible with Replaceable Cork Screw Tips

Hook Size	Hook Length	Used for Packing Size	U.S. Seal Mfg. Part No.	Replaceable Tip Part No.
Midget	6-1/2"	5/32" and Up	USP-PKGMGT	—
Small	7-1/2"	5/16" and Up	USP-PKGHOOKSM	USP-REPLTIPSM
Medium	11"	7/16" and Up	USP-PKGHOOKMED	USP-REPLTIPMED
Large	14"	1/2" and Up	USP-PKGHOOKLG	USP-REPLTIPLG

PACKING TOOL KITS - Three Sizes Available

U.S. Seal Mfg. Part No.	No. of Pieces per Kit	Kit Contents
USP-TOOLKITSMALL	11	Contains hooks, picks, tips, wrench
USP-TOOLKITMED	17	Contains hooks, picks, tips, wrench
USP-TOOLKITLG	36	Contains hooks, picks, tips, thread adapters, brush sets, packing cutting knife with leather sheath

PACKING CUTTERS

Hand Held Packing Cutter

Size	U.S. Seal Mfg. Part No.	Type of Cuts	Max. Cross Section
Hand Held	USP-HTPKGCUT	Butt	Up to 3/4"
		Diagonal	Up to 5/8"



Hand Held

Guillotine Packing Cutter

Size	U.S. Seal Mfg. Part No.	Type of Cuts	Max. Cross Section	Max. Cross Section
Small	USP-SMPKGCUT	Butt	Up to 1"	Up to 4"
		Diagonal	Up to 3/4"	
Medium	USP-MEDPKGCUT	Butt	Up to 1"	Up to 10"
		Diagonal	Up to 3/4"	



Guillotine

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