



# Packing and Packing Products



DEMAND QUALITY...DEMAND U.S. SEAL

## U.S. Seal Packing - Quick Select Guide

### General Service

- Non-abrasive, water, oil, mild acids & alkalis
- pH Range (Style 302 - 2 to 12) (Style 303 - 4 to 10)
- Temperature -170° F to 500° F
- Style Selection: 302, 303

### Chemical Service

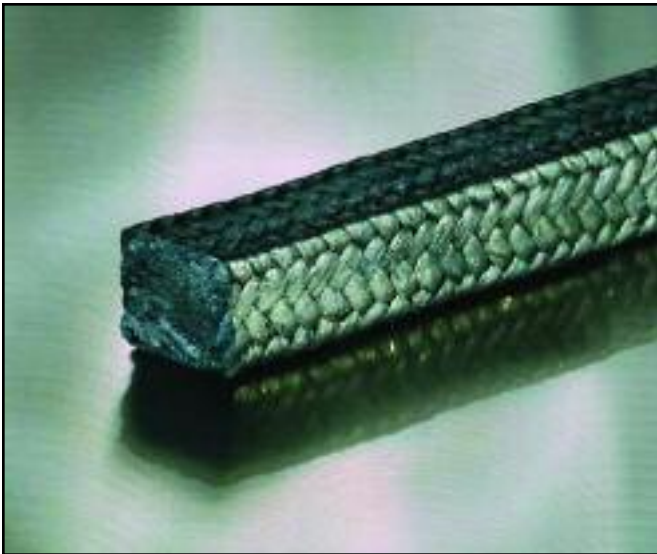
- PTFE based lubricated packing
- pH Range 0 to 14
- Temperature -350° F to 550° F
- Style Selection: 58

## U.S. Seal Packing - Industry Comparison Chart

Packing Manufacturer	Style 58	Style 302	Style 303	TFE LR Strip
<b>American Braiding</b>	8000T 8100BIL 8200BIL	3000N 3000T	3000G	
<b>Chemstar</b>	165 165LA 3165	1152 1162IB	1398 1430	
<b>Chesterton</b>	1750 1760	1710 1774 412W		
<b>Garlock</b>	Packmaster 6 5100	Packmaster 1 7223 8922	Packmaster 2 Packmaster 3 8909 8913	1004 Coil
<b>John Crane</b>	C1070	1335	1340	
<b>Marlow</b>	462	250	259	
<b>New England Braiding</b>	102	142	142G	Universal Lantern Ring Strip
<b>Palmetto</b>	1389	1347AF 1392	1007AF 1030AF	
<b>Phelps</b>	2024	2072 2172	2075 2175 2176	
<b>Sepco</b>	ML 3600 ML 4002 ML 8002	ML 2225 ML 2550	ML 402	Flexible Lantern Ring Material
<b>Teadit</b>	2007	2019	2255	Universal Lantern Ring Strip
<b>Utex</b>	210 244 246	234 237	233 236	

# PACKING AND PACKING PRODUCTS

## STYLE 58 - PTFE Based Packing - General and Chemical Service



### 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.

### Performance Capabilities

- Temperature:  
-350° F to 500° F
- Pressure:  
Pump 20 bar / 300 psi  
Valve 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.

### 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 & Gas
- Pharmaceutical
- Power Generation
- Pulp & Paper
- Steel & Metals

#### One Pound Box

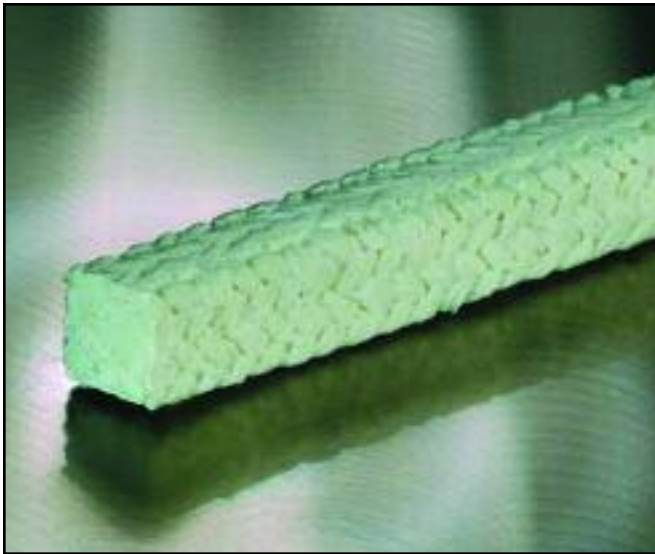
Cross Section	U.S. Seal Part Number	Approx. Feet / Box
1/8"	USP-012501058	89.93
3/16"	USP-018701058	39.34
1/4"	USP-025001058	22.01
5/16"	USP-031201058	14.13
3/8"	USP-037501058	9.78
7/16"	USP-043701058	7.20
1/2"	USP-050001058	5.50

#### Five Pound Box

Cross Section	U.S. Seal Part Number	Approx. 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

# PACKING AND PACKING PRODUCTS

## STYLE 302 - Synthetic Packing - 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.

### Product Description

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

Constructed of the highest quality synthetic fibers and lubricants and 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 which help 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 & Gas
  - Power Generation
  - Pulp & Paper
  - Wastewater

#### One Pound Box

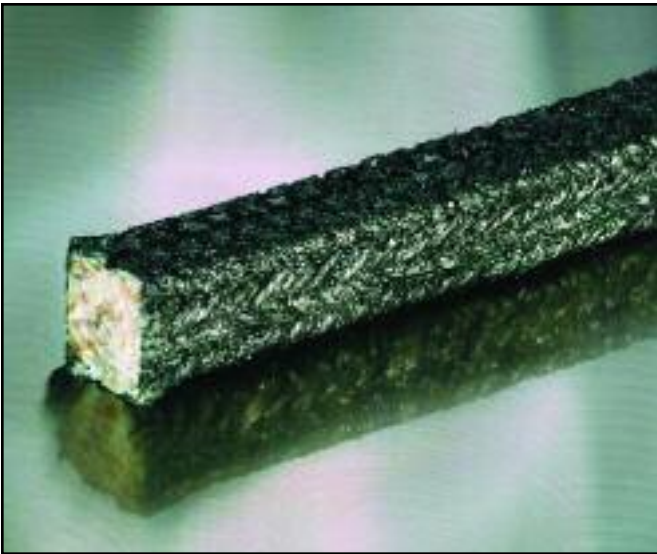
Cross Section	U.S. Seal Part Number	Approx. Feet / Box
1/8"	USP-012501302	116.28
3/16"	USP-018701302	54.73
1/4"	USP-025001302	29.06
5/16"	USP-031201302	18.66
3/8"	USP-037501302	12.91
7/16"	USP-043701302	9.51
1/2"	USP-050001302	7.27

#### Five Pound Box

Cross Section	U.S. Seal Part Number	Approx. 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

# PACKING AND PACKING PRODUCTS

## STYLE 303 - Graphite-Coated Packing - 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.

### 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 & Gas
- Power Generation
- Pulp & Paper
- Wastewater

### 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 Range:  
4 to 10

### Construction Features

Interlace Braid

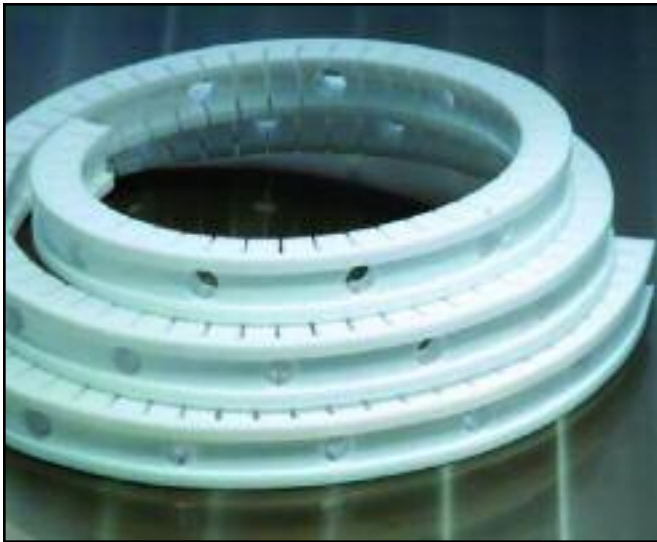
Style 303 has spun synthetic fibers treated with a proprietary blend of petroleum-based lubricants plus an external coating of graphite

One Pound Box		
Cross Section	U.S. Seal Part Number	Approx. 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

Three Pound Box		
Cross Section	U.S. Seal Part Number	Approx. 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	53.81
7/16"	USP-043703303	39.62
1/2"	USP-050003303	30.26

# PACKING AND PACKING PRODUCTS

## PTFE Lantern Ring Strip



### 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

### 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.

### 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 & Minerals
- Municipal
- Oil & Gas
- Pharmaceutical
- Power Generation
- Pulp & Paper
- Steel & 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

# PACKING AND PACKING PRODUCTS

## Packing Tools & Kits

"T" Handled, Flexible Shaft with Removable Cork Screw Type Tip			
Size	Length	Used for Packing Size	Part Number
Midget *	6-1/2"	5/32" and Up	USP-PKG HOOK MGT
Small	7-1/2"	5/16" and Up	USP-PKG HOOK MED
Medium	11"	7/16" and Up	USP-PKG HOOK SM
Large	14"	1/2" and Up	USP-PKG HOOK LG

\* Non-Removable Tip

### Packing Hook Replacement Tips Cork Screw Type

Part No: USP-REPL-TIP-SM      Small  
 Part No: USP-REPL-TIP-MED      Medium  
 Part No: USP-REPL-TIP-LG      Large



### Tool Kit - Contains An Assortment of Hooks, Picks and Replacement Tips

Make your job easier by using the proper tools.

Part No: USP-TOOL KIT LG  
 Contains 36 pcs.  
 - Hooks, picks, tips, thread adapters, brush sets, packing cutting knife with leather sheath, tool box

Part No: USP-TOOL KIT MED (as shown)  
 Contains 17 pcs.  
 - Hooks, picks, tips, wrench, case only

Part Number: USP-TOOL KIT SMALL  
 Contains 11 pcs.  
 - Hooks, picks, tips, wrench, case only



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