

GARLOCK

- VALVE PACKING -



212-ULE (Ultra-Low Emissions) Valve Stem Spool Packing

Simplify your Leak Detection and Repair (LDAR) Program with Garlock Style 212-ULE

Better than engineered set performance in a convenient spool product. Style 212-ULE is easy to cut and install with color coded braid.

Cut inventory dollars and reduce outage schedules without sacrificing performance. Outage planning is easier than ever now that each 212-ULE box indicates how many typical valves can be repacked by one box.

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212-ULE (Ultra-Low Emissions) Valve Stem Spool Packing

Value & Benefits:

- Easily meets less than 100 ppm emissions
- Easy to use dispensing box
- Pack stuffing boxes without ordering specialized seal sets
- Low stem friction
- Environmentally friendly performance and packaging
- Our proprietary "212" ULE drastically reduces emissions in valve applications
- A planning label that tells you how many boxes you need so you can plan outages better
- A 5-year warranty
- Recyclable packaging for a truly green solution
- Unique design that allows you to make your own packing set rather than depend on a distant manufacturing site.

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212-ULE (Ultra-Low Emissions) Valve Stem Spool Packing

Ideal For:

- Valves
- Critical Service
- EPA Compliance
- Hydrocarbon Processing Industry
- Chemical Processing Industry

Specifications

Min. Temperature: -328 (°F)

Max. Temperature: +1200 (°F)

In Steam Min. Temp. -200 (°C)

In Steam Max. Temp +650 (°C)

Atmosphere +850°F (+455°C)

Pressure: 4500 psi (310 bar)

PH 0 - 14 (except strong oxidizers)

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Style 1303-FEP Braided Valve Packing

Style 1303-FEP is manufactured from a proprietary yarn consisting of several strands of high purity GRAPH-LOCK® contained by an INCONEL filament jacket. This INCONEL wire filament is only 0.004" diameter, making the finished braid non-scoring and thermally conductive.

Superior performance:

- Compliance with the most stringent VOC and VHAP emissions regulations
- Thermally conductive; resists heat, pressure and chemicals
- Fire safe
- Dimensionally stable, impervious to gases and fluids
- Non-scoring, self-lubricating, non-hardening
- Ideal for the hydrocarbon, chemical processing and power generation industries

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Style 1303-FEP Braided Valve Packing

Convenience:

- Spool stock reduces inventory and downtime
- Handles easily, retains integrity when cut and formed
- No end rings required

Specifications:

Min. Temperature: -328 (°F)

Max. Temperature: 850 (°F)

Max. Valve Pressure: 4,500 (PSI)

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Style 5100 - 100% GFO GFO Pump Packing

PUMP or VALVE PACKING

An industry standard for over 20 years, our style 5100 uses 100% Gore GFO filament yarns and a silicone break-in lubricant. This style does not fray when its cut, is easy to install and features long life and water efficiency in rotating equipment applications.

It can be utilized through an extremely wide range of applications including acids, alkalis, aromatic and aliphatic solvents, alcohols, esters, petroleum and synthetic oils, steam, water, aqueous solutions, air and dry industrial gases.

Style 5100 features good thermal conductivity, speed capability, chemical resistance, low coefficient of friction, and low coefficient of thermal expansion. Excellent for use in pumps, mixers and agitators. And remember, if it doesn't have 100% GFO printed on the packing, it's not 100% GFO.

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Garlock 5882 Series

Style 5882 provides low friction performance in industries where Air Operated Valves are used for steam, water, air and process control applications.

The unique combination of materials helps achieve superior valve sealing with lower friction for valve stem actuation.

Style 5882 comes in both spool stock and die-formed ring sets for customer convenience.

If a lower PTFE content/higher temperature set is needed, Style 5882 can be used as end rings and combined with GRAPH-LOCK® center rings*.

* Please contact Applications Engineering or the Product Line for recommendations.

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Garlock 5882 Series

Optimizing Friction & Structural Stability

LOW FRICTION PRODUCT OFFERINGS:

- Garlock Style 5882 is constructed from a high quality carbon fiber core and a PTFE shell, optimizing the low friction qualities of PTFE and the structural integrity of high quality carbon fiber. Packing is available in spool stock and die formed ring sets for end user convenience.
- Style 5882 LSP is a combination set of GRAPH-LOCK® and Style 5882 rings for nuclear applications.

Advantages:

- Low Friction: Up to 20% lower friction than leading competing products made from innovative materials and technology.

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Garlock 5882 Series

- Customizable Material and Bushings: All standard sizes available. These products can be formed to almost any dimensions. We offer custom fabricated carbon bushings for optimizing box depth and set performance.
- Logistically Simple: Planning for an outage? Formed sets provide you with a convenient way to know you have exactly what you need.
- Quality: Use of highest quality and purity materials combined with our workmanship allows us to provide consistent and reliable products for safety and performance.

Configurations available:

- Continuous: Style 5882 is available in spool form with service to 500F. Includes class leading low friction performance and is a versatile spool offering

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Garlock 5882 Series

Discrete: Style 5882 Die Formed, Bevel Cut Ring Sets allowing for logistic simplicity and class leading low friction performance.

Style 5882 LSP Set is a die formed engineered graphite set with Style 5882 end rings. The LSP set has the best sealing with higher heat dissipation.

Ideal for:

- Air Operated Valves (AOV): Steam, Water, Process Control and Air

Benefits:

- Potential cost reduction by reducing size of required actuator
- In service solution for undersized actuators in trouble applications
- Convenience of die formed or mandrel cut spool stock

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9000 EVSP Simplified® Valve Packing

The 9000 EVSP Simplified® set combines two superior Garlock® products - Style 98 carbon packing and cup and cone GRAPH-LOCK® die-formed rings.

The nearly chemically inert set expands radially when the gland is tightened for a positive valve stem OD seal as well as stuffing box ID seal.

The 9000 EVSP® set is extremely useful in hydrocarbon industry processing, or any valve application where elimination of encrustation, chemical attack, or health hazard is required.

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9000 EVSP Simplified® Valve Packing

Excellent sealing:

- Patented “cup & cone” design permits selective component compression and controlled radial flow for effective sealing on I.D. and O.D.
- End rings act as wiper rings to restrict graphite particle transfer, prevent extrusion and provide extra resiliency

Custom design capability:

- Patented cup & cone design can provide sealability in valves as shallow as three-ring cross sections
 - For deep stuffing boxes requiring more than a 7-ring set, machined / split carbon bushings can shorten the box depth
- Grade 250 (Style #4525) for general services
Grade 580 (Style #4540) for nuclear services

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9000 EVSP Simplified® Valve Packing

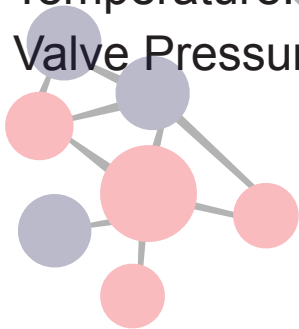
- Choice of end rings: Style 98 (general service) or Styles G-700 or 1398 (nuclear service)

Specifications:

Min. Temperature: -328 (°F)

Max. Temperature: 850 (°F)

Max. Valve Pressure: 10,000 (PSI)



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QUICKSET® 9001 Valve Packing Low Emissions Valve Packing

Garlock QUICKSET is a low emissions alternative specifically designed for shallow stuffing boxes. Like EVSP, QUICKSET offers less than 100 ppm service and exceptionally long life.

Unlike EVSP however, QUICKSET provides low emission benefits with approximately 20% less stem friction. This results in a more efficient and therefore less costly use of plant air and electricity in controlling actuated valves.

Top performance:

- Five-ring set of die-formed cup and cone graphite rings and high-density end rings ensure tight seal
- Meets global emissions standards
- Lowest stem friction ever for graphite packing sets means longer equipment life

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QUICKSET® 9001 Valve Packing Low Emissions Valve Packing

Ultra convenience:

- Preassembled and ready to install
- No measuring, no cutting, no waste
- Forty popular sizes fit the majority of valves
- Available in a wall-mounted rack or floor display for easy access and better inventory management

Versatility:

- QUICKBUSHINGS® in matching sizes can retrofit deeper stuffing boxes

Specifications:

Min. Temperature: -328 (°F)

Max. Temperature: 850 (°F)

Max. Valve Pressure: 10,000 (PSI)

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Style 1965 Synthetic Pump Packing

Garlock Style 1965 is manufactured from a blend of our own patented fiber-infused PTFE yarns with graphite, and SYNTHEPAK® yarns, impregnated with PTFE suspensoid then coated with snow-white petrolatum break-in lube.

The fiber infused yarn provides exceptional abrasion resistance, yet are not abrasive to shafts.

The product also resists extrusion. It is a general service packing that can be used on rotary shafts of pumps, mixers, agitators, crystallizers and filters, as well as reciprocating rods, rams and plungers, accumulators, intensifiers, and hydraulic presses.

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Style 1965 Synthetic Pump Packing

It cuts, wraps and installs easily, remains flexible in service- which greatly reduces maintenance time. Low tension braiding makes style 1965 a softer, more flexible material.

This general service packing can be used in a wide variety of applications from pulp and paper to water and waste water.

Specifications:

Min. Temperature: -450 (°F)

Max. Temperature: 500 (°F)

Max. Rotary Pump Pressure: 300 (PSI)

Max. Rotary Pump Speed: 2,500 (FPM)