








# Garlock® | GARLOCK COMPRESSION PACKING PRODUCT

an EnPro Industries family of companies

Garlock® has a comprehensive compression packing range to cater for general services to the most demanding conditions. Below is a selection of some popular styles to suit most applications.

	Style	Construction	Features	Applications	Op. Conditions	Rotary	Recip.	Valve
<b>GENERAL SERVICE (GOOD)</b>	PM-1 	<b>LATTICE BRAID®</b> . Synthetic yarns are coated with a PTFE dispersion and a surface coating of break-in lubricant	<ul style="list-style-type: none"> <li>✓ Good general purpose packing</li> <li>✓ Non-contaminating</li> </ul>	Typical applications are rotary, centrifugal, & reciprocating pumps for mild acids & alkalis, air & dry industrial gases, petroleum & synthetic oils, solvents, and fluids where non-contamination is required.	pH	4-10	4-10	-
					Pressure (bar)	20	20	-
					Temperature (°C)	-110 to +260	-110 to +260	-
					Speed (m/s)	8	-	-
	PM-2 	<b>LATTICE BRAID®</b> . Synthetic yarns are infused with graphite and petroleum lubricants	<ul style="list-style-type: none"> <li>✓ Good general purpose packing</li> <li>✓ Graphite coating provides good lubrication</li> </ul>	Typical services include rotary and centrifugal pumps, reciprocating pumps, & other non-critical static sealing services. Ideally suited for services in hot & cold water, alcohol, very mild acids & alkalis, and steam.	pH	4-10	4-10	-
					Pressure (bar)	20	20	-
					Temperature (°C)	-110 to +260	-110 to +260	-
					Speed (m/s)	8	-	-
<b>DEMANDING SERVICE (BETTER)</b>	8922 	<b>LATTICE BRAID®</b> . SYNTHETPAK® synthetic yarns. Each polymer fibre is PTFE saturated & coated with a silicone start-up lubricant.	<ul style="list-style-type: none"> <li>✓ <b>Non-contaminating</b></li> <li>✓ High chemical resistance</li> </ul>	Excellent for use in rotary, centrifugal, & reciprocating pumps; valves and plungers where a <b>wide range of chemical compatibility is required.</b>	pH	0-12	0-12	0-12
					Pressure (bar)	35	35	173
					Temperature (°C)	-110 to +288	-110 to +288	-110 to +288
					Speed (m/s)	12	-	-
	8921-K 	<b>LATTICE BRAID®</b> . SYNTHETPAK® synthetic yarns with aramid filament corners. Each polymer fibre is PTFE saturated & coated with a silicone start-up lubricant.	<ul style="list-style-type: none"> <li>✓ <b>Non-contaminating</b></li> <li>✓ High chemical resistance</li> <li>✓ <b>Abrasion and extrusion resistance</b></li> </ul>	<b>Excellent for chemicals and abrasive media</b> in rotary, centrifugal, & reciprocating pumps; valves and plungers.	pH	0-12	0-12	0-12
					Pressure (bar)	35	35	35
					Temperature (°C)	-110 to +288	-110 to +288	-110 to +288
					Speed (m/s)	11	-	-
5888 	<b>LATTICE BRAID®</b> . High density PTFE continuous filament with PTFE dispersion.	<ul style="list-style-type: none"> <li>✓ Dimensionally stable, relatively soft &amp; flexible</li> <li>✓ Low surface friction</li> <li>✓ <b>No leakage through the body</b></li> <li>✓ <b>Resistant to most chemicals</b></li> </ul>	Check and needle valve stems, reciprocating rods, rams and plungers and rotary applications. <b>Almost all volatile applications across chemical and other industries.</b>	pH	0-14	0-14	0-14	
				Pressure (bar)	20	20	138	
				Temperature (°C)	-270 to +260	-270 to +260	-270 to +260	
				Speed (m/s)	5	-	-	
1965 	<b>LATTICE BRAID®</b> . A blend of Garlock patented fibre infused PTFE yarns with graphite & SYNTHETPAK® yarns with PTFE dispersion	<ul style="list-style-type: none"> <li>✓ <b>Excellent abrasion and extrusion resistance</b></li> <li>✓ <b>Excellent memory – good for misalignment</b></li> <li>✓ Increased thermal stability</li> <li>✓ <b>Shock resistant</b> withstanding cavitation, pressure surges and other system upsets</li> <li>✓ Non-contaminating</li> </ul>	<b>Highly effective for sealing slurry pumps</b> found in mining due to <b>abrasion resistance and form memory.</b> Great high performance packing to suit most pump and rotary equipment.	pH	1-13	-	-	
				Pressure (bar)	41	-	-	
				Temperature (°C)	-270 to +260	-	-	
				Speed (m/s)	12	-	-	
<b>CRITICAL SERVICE (BEST)</b>	1333-G 	<b>Square Braid.</b> Graphite fibre reinforced flexible graphite yarns and high purity graphite filament yarns.	<ul style="list-style-type: none"> <li>✓ <b>Stability in high temperatures</b></li> <li>✓ <b>Excellent chemical resistance</b></li> <li>✓ <b>Dissipates heat quickly – conserves water</b></li> <li>✓ Greater tensile strength</li> <li>✓ Good abrasion resistance</li> </ul>	Excellent for use in clean, high speed, high temperature <b>applications requiring low leakage rates.</b> Versatile application in a range of media within rotary, centrifugal, & reciprocating pumps; valves and plungers.	pH	0-14*	-	0-14*
					Pressure (bar)	41	-	275
					Temperature (°C)	-200 to +455 (650 in steam)	-	-200 to +455 (650 in steam)
					Speed (m/s)	23	-	-
	98 	<b>LATTICE BRAID®</b> . Reinforced carbon fibre yarns.	<ul style="list-style-type: none"> <li>✓ <b>The best choice for high temp service</b></li> <li>✓ <b>Low coefficient of friction for longer</b></li> <li>✓ <b>High thermal conductivity</b></li> <li>✓ <b>Withstands wide variety of chemicals</b></li> <li>✓ Low chloride certification available</li> </ul>	Centrifugal pumps, agitators, ball, globe, gate and plug valve stems, oil drilling and down-hole tools and other applications. <b>Can handle acids, strong caustics, hot oils, solvents, boiler feed, condensate water and more.</b>	pH	0-14*	0-14*	0-14*
					Pressure (bar)	35	35	173
				Temperature (°C)	-200 to +455 (650 in steam)	-200 to +455 (650 in steam)	-200 to +455 (650 in steam)	
				Speed (m/s)	20	-	-	
1303-FEP 	High-purity GRAPH-LOCK® flexible graphite encapsulated	<ul style="list-style-type: none"> <li>✓ <b>Compliance to the most stringent VOC and VHAP emission regulations</b></li> </ul>	Valves for power generation, chemical, steam service and hydrocarbon processes.	pH	-	-	0-14*	
				Pressure (bar)	-	-	310	

		in 0.004" INCONEL® filament	<ul style="list-style-type: none"> <li>✓ <b>Excellent chemical resistance</b></li> <li>✓ Greater tensile strength.</li> <li>✓ Increased thermal stability</li> <li>✓ <b>Non-scouring construction</b></li> </ul>	<b>Any critical service valve application with stringent emission control.</b>	Temperature (°C)	-	-	-200 to +455 (650 in steam)
					Speed (m/s)	-	-	

*\*0-14 except strong oxidizers*

For information on the full range of Garlock compression packing, engineered packing sets, selection & applications assistance, or sales inquiries, please contact Garlock on **1800 GARLOCK** or **austsales@garlock.com**

[www.garlock.com](http://www.garlock.com)