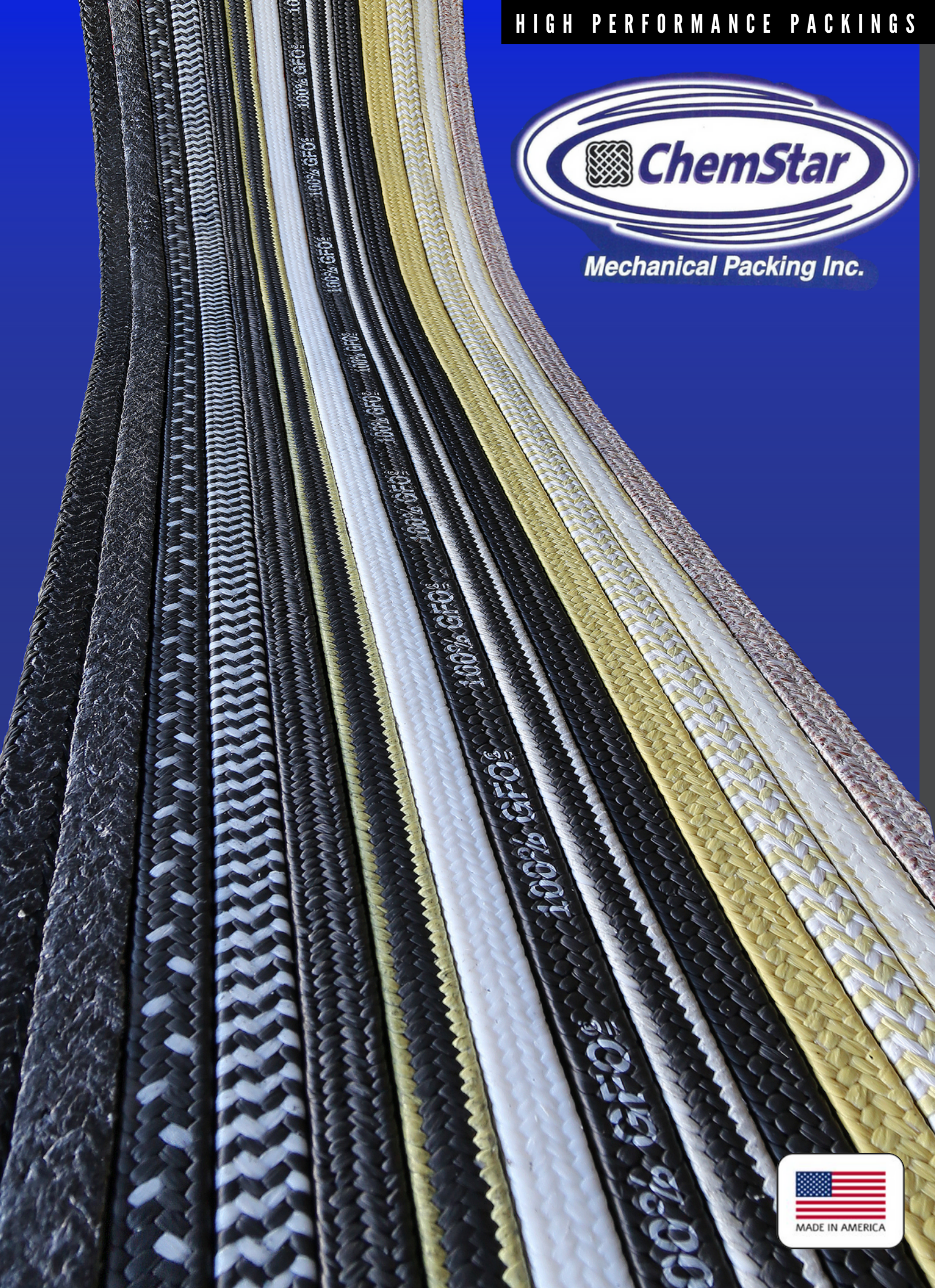


HIGH PERFORMANCE PACKINGS



Mechanical Packing Inc.



PRODUCT SPECIFICATION

STYLE 154



Temperature: To 500°F (260°C)
 pH: 0-14 Speed: 1000 FPM
 Pressure: To 300 psi (20 bar) - pumps
 To 2000 psi (140 bar) - valves
 Construction: Interlock Braid

PTFE packing, with PTFE dispersion. A dense firm packing used in valve and slow speed pump applications. Excellent chemical resistance.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	74	32	20.6	13.5	9.5	7	5.5	4.1	3.3	2.5	2	1.6
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 154S



Temperature: To 500°F (260°C)
 pH: 0-14 Speed: 1500 FPM
 Pressure: To 300 psi (20 bar)
 Construction: Interlock Braid

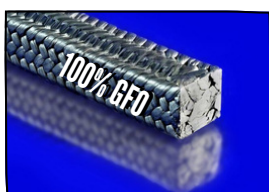
PTFE packing treated with an inert lubricant. A soft and resilient packing for chemical pump and valve applications.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	72	31	19.4	12.5	9	7	5.1	4.1	3.3	2.3	1.7	1.2
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

*Food Services Packing Use - STYLE 154FDA

Braided Teflon Tape - STYLE 156

STYLE 165

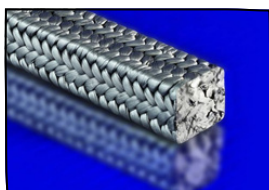


Temperature: To 550°F (285°C)
 pH: 0-14 Speed: 4300 FPM
 Pressure: To 300 psi (20 bar)
 Construction: Interlock Braid

Graphite filled PTFE fiber packing that improves thermal conductivity and will not harden. 100% GFO

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	69	36	21	14	10	7	5.7	4.5	3.5	2.5	1.9	1.5
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 165LA

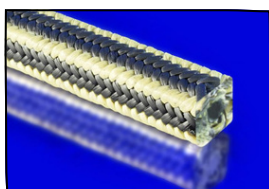


Temperature: To 550°F (285°C)
 pH: 0-14 Speed: 1000 FPM
 Pressure: To 300 psi (20 bar)
 Construction: Interlock Braid

PTFE packing, with PTFE dispersion. A dense firm packing used in valve and slow speed pump applications. Excellent chemical resistance.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	69	36	21	14	10	7	5.7	4.5	3.5	2.5	1.9	1.5
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 165K

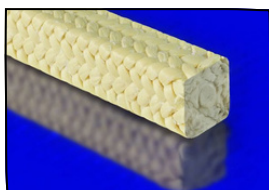


Temperature: To 550°F (285°C)
 pH: 2-12 Speed: 2500 FPM
 Pressure: To 300 psi (20 bar)
 Construction: Interlock Braid

Unique packing combining PTFE graphite with aramid corners. Aramid corners prevent roll and extrusion. Excellent service packing in severe pump applications. Widely used in paper mills.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	N/A	N/A	22	13.1	9.5	6.6	5.7	4.2	3.3	2.6	1.8	1.5
lbs./box	N/A	N/A	2	2	2or5	5	5	5	5	10	10	10

STYLE 170



Temperature: To 500°F (260°C)
 pH: 0-14 Speed: 1900 FPM
 Pressure: To 500 psi (35 bar)
 Construction: Interlock Braid

Aramid fiber packing with an inert lubricant. Extremely durable, highly abrasive resistant packing. Ideal for slurry service.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	78	37	22	16	11.4	8	6	4.9	3.6	2.6	2.3	1.6
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 182



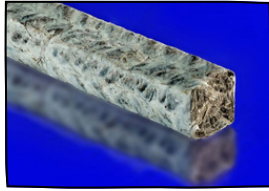
Temperature: To 500°F (260°C)
 pH: 2-12 Speed: 2250 FPM
 Pressure: To 300 psi (20 bar) - pumps
 Construction: Interlock Braid

Spun aramid fiber impregnated with PTFE dispersion and break-in lubricant. Ideal for valves and pumps in abrasive service.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	75	35	20	18	10	8	6	5	3.8	2.5	2.1	1.6
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 525T

Temperature: To 250°F (120°C)
 pH: 4-9
 Speed: 1500 FPM
 Pressure: To 200 psi (15 bar)
 Construction: Square Braid



Premier marine service packing made with flax fibers and lubricated with PTFE dispersion. It has low friction and high tensile strength. Excellent for water service and paper mill applications.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	120	50	30	20	15	10	8.6	6.6	5	3.6	2.7	2.1
lbs./box	2	2	5	5	5or10	5or10	5or10	5or10	10	10	10	10

STYLE 528

Temperature: To 220°F (105°C)
 pH: 5-9
 Speed: 1200 FPM
 Pressure: To 150 psi (10 bar)
 Construction: Square Plaited



Flax fiber packing, lubricated with tallow and wax. Used for brine, cold water and oil service. Ideal for marine applications.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	139	59	28	21	14.8	10.7	8.6	6.5	5.1	3.6	2.8	2.3
lbs./box	2	2	5	5	5or10	5or10	5or10	5or10	10	10	10	10

STYLE 531

Temperature: To 220°F (105°C)
 pH: 5-9
 Speed: 1200 FPM
 Pressure: To 150 psi (10 bar)
 Construction: Square Braid

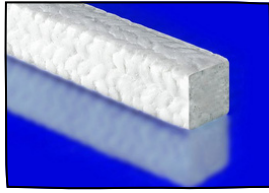


Flax fiber packing, treated with a petroleum-based lubricant and surface graphited.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	118	58	33	22	15	11	9	7.4	5.7	3.8	2.8	2.3
lbs./box	2	2	5	5	5or10	5or10	5or10	5or10	10	10	10	10

STYLE 1152

Temperature: To 500°F (260°C)
 pH: 0-12
 Speed: 2200 FPM
 Pressure: To 500 psi (35 bar)
 Construction: Interlock Braid



Special syntex fiber, with each strand impregnated with PTFE dispersion both prior to and after braiding. Finished packing also has a break-in lubricant. An asbestos replacement packing for general service applications. Good chemical resistance.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	88	48	25	16.6	12	8.5	6.4	5.7	4.2	2.9	2.6	1.7
lbs./box	1	1	2or5	2or5	2or5	5	5	5	5	10	10	10

STYLE 1152K

Temperature: To 500°F (260°C)
 pH: 3-12
 Speed: 2200 FPM
 Pressure: To 500 psi (35 bar)
 Construction: Interlock Braid



Unique packing combining 1152 and 170 fibers. Aramid corners prevent roll and extrusion. Well suited for abrasive applications and end rings with other packings.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	N/A	N/A	25	17	11.7	8.8	6.8	5.7	4.2	3.2	2.1	1.6
lbs./box	N/A	N/A	2or5	2or5	2or5	5	5	5	5	10	10	10

STYLE 1190

Temperature: To 500°F (260°C)
 pH: 0-13
 Speed: 1500 FPM
 Pressure: To 500 psi (35 bar)
 Construction: Interlock Braid

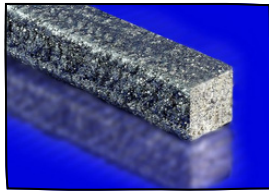


Special Kynol fibers treated with PTFE and break in lubricant. This is a non-contaminating packing for use in " paper mills in almost all pump and valve applications.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	80	50	26	19	13	10	7.4	6	4.6	3.2	2.5	1.9
lbs./box	1	1	2	2or5	2or5	5	5	5	5	10	10	10

STYLE 1398

Temperature: To 500°F (260°C)
 pH: 4-10
 Speed: 1500 FPM
 Pressure: To 300 psi (20 bar)
 Construction: Interlock Braid



Syntex fiber packing thoroughly impregnated with a high temperature lubricant. Finished packing is surface graphited. An asbestos replacement packing for general service use on pumps and valves.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	128	56	31	21	16	11	8.6	6.7	5.8	4	3	2.1
lbs./box	2	2	2	2or5	2or5	5	5	5	5or10	10	10	10

STYLE 1416

Temperature: To 100°F (535°C)
pH: 2-11
Speed: 1500 FPM
Construction: Square Plaited



Premier marine service packing made with flax fibers and lubricated with PTFE dispersion. It has low friction and high tensile strength. Excellent for water service and paper mill applications.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	N/A	N/A	28	18	12.5	10	7.7	6.2	5.4	3.8	2.6	2.1
lbs./box	N/A	N/A	20R5	20R5	5	5	5or10	5or10	10	10	10	10

Available in Interlock Braid - **STYLE 1416IB**

STYLE 1430

Temperature: To 500°F (260°C)
pH: 4-10
Speed: 1500 FPM
Pressure: To 300 psi (20 bar)
Construction: Square Plaited



Syntex fiber packing treated with a high temperature lubricant and graphited. Soft and pliable for general service on pumps and valves.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	128	56	34	22	16	12.5	9	6	5.5	4	2.6	2.2
lbs./box	2	2	2or5	2or5	5	5	5or10	5or10	10	10	10	10

Available with Moly Lubricant - **STYLE 1430 MOLY**

STYLE 2000

Temperature: To 550°F (285°C)
pH: 1-13
Speed: 2200 FPM
Pressure: To 500 psi (35 bar)
Construction: Interlock Braid

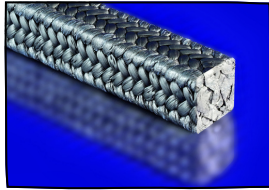


Special meta-aramid fiber with PTFE and break-in lubricant. Very conformable and abrasive resistant. High resistant to degradation and chemical attack. For use in agitators, stock pumps, mixers, etc.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	90	50	26	18	10	8	6.2	5.1	4.1	3.2	2	1.6
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 3165

Temperature: To 550°F (285°C)
pH: 0-14
Speed: 4500 FPM
Pressure: To 300 psi (20 bar)
Construction: Interlock Braid

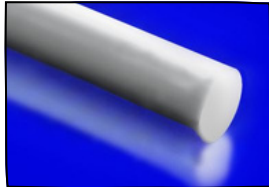


Special blend of PTFE and graphite fibers plus a high temperature lubricant. An economical substitute for style 165. Good chemical and abrasion resistant packing.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	62	42	20	12.5	9.3	6.8	5.4	4	3.2	2.4	1.7	1.3
lbs./box	1	1	2	2	2or5	5	5	5	5	10	10	10

STYLE 4100

Temperature: To 450°F (600°C)
pH: 0-14



Extruded round valve packing made of 100% expanded virgin PTFE. FDA suitable (FDA 21 CRR 177.1550)

ft./lb	3/32" x 50'	5/32" x 25'	7/32" x 25'	9/32" x 9'

STYLE 4200

Temperature: To 600°F (315°C)
pH: 0-14
Pressure: To 3000 psi (200 bar)



Chemcord 100% expanded virgin PTFE joint sealant. Maximum performance gasket material. FDA approved.

ft./lb	1/8" x 100'	3/16" x 75'	1/4" x 50'	3/8" x 25'	1/2" x 15'	5/8" x 15'	3/4" x 15'	1" x 15'

(Jumbo Spools Available)

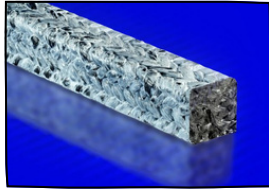
WARNING:

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

All properties/applications depicted in this brochure are general in nature. No specific applications should be undertaken without independent study and evaluations for suitability. For specific applications, we recommend that you consult Chemstar. Remember, failure to select proper sealing product(s) could result in property damage and/or serious personal injury.

While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. This edition supersedes all previous issues and is subject to change without notice. Specifications are subject to change without further notice.

STYLE 50



Temperature: To 600°F (315°C)
 pH: 0-14
 Speed: 3000 FPM
 Pressure: To 500 psi (35 bar)
 Construction: Interlock Braid

Carbon yarn packing heavily impregnated with PTFE dispersion. For severe services in pumps or valves handling chemicals, solvents and acids. An ideal packing for paper mill applications.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	72	43	25	17	12	9	7.5	5.5	4.6	3.2	2.1	1.8
lbs./box	1or2	1or2	1or2	2	2or5	5	5	5	5	5or10	10	10

STYLE 90

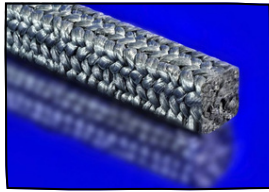


Temp: To 850°F -atmosphere (455°C)
 To 1200°F -steam (650°C)
 pH: 0-14 Speed: 4000 FPM
 Pressure: To 150 psi (35 bar)-pumps
 To 2500 psi (170) - pumps
 Construction: Interlock Braid

Carbon yarn packing impregnated with graphite dispersion. For severe services in pump and valve applications. including super-heated steam. acids. alkalis. etc.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	160	58	39	21	15.3	11.7	8.8	7.8	6	4.1	3	2.2
lbs./box	1or2	1or2	1or2	2	2or5	5	5	5	5	5or10	10	10

STYLE 160

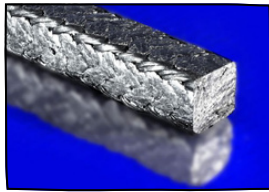


Temp: To 850°F (455°C)-atmosphere
 To 1200 F (650 C)-steam
 pH: 0-914 Speed: 40000 FPM
 Pressure: To 500 psi (35 bar)-pumps
 2500 psi (170 bar)-valves
 Construction: Interlock Braid

Graphite filament packing impregnated with a graphite dispersion. For severe service applications where leakage must be held to a minimum. Excellent chemical resistance.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	210	68	45	24	17	12.6	11	9.6	7.5	5.3	3.7	2.5
lbs./box	1or2	1or2	1or2	2	2or5	5	5	5	5	5or10	10	10

STYLE 1100CR

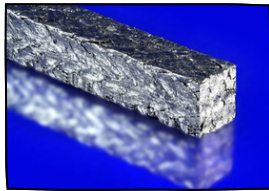


Temperature: To 1250°F (650°C)-steam
 To 1050 F (565 C)-atmosphere
 pH: 0-14 except strong oxidizer
 Speed: 4000 FPM
 Pressure: To 500 psi (35 bar)
 Construction: Interlock Braid

Braided from a combination of expanded flexible graphite (1100TP) and high strength carbon fibers (90) Carbon fibers are braided into the corners to provide anti-extrusion and better abrasion resistance in tough applications. Can give virtually leak free performance. 1100CR was independently fire tested to API 589 at API 607 temperatures and pressures.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	N/A	N/A	33	21	14.8	10.5	8	7.2	5.7	3.8	3.2	2.5
lbs./box	N/A	N/A	1OR2	2	2or5	5	5	5	5	5	4	3

STYLE 1100 I

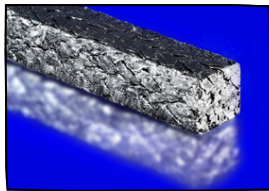


Temperature: To 1200°F (650°C)-steam
 To 850 F (455 C)-atmosphere
 pH: 0-14 except strong oxidizer
 Pressure: To 3000 psi (200 bar)
 Construction: Interlock Braid
 Valves Only

Unique packing combining 1152 and 170 fibers. Aramid corners prevent roll and extrusion. Well suited for abrasive applications and end rings with other packings.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	110	50	30	20	13	10	7	6.4	5	3.3	2.6	2
lbs./box	1	1	1or2	2	2or5	5	5	5	5	10	10	10

STYLE 1100TCP



Temperature: To 1200°F (650°C)-steam
 To 850 F (455 C)-atmosphere
 pH: 0-14 except strong oxidizer
 Pressure: To 3000 psi (200 bar)
 Speed: 4000 FPM
 Construction: Interlock Braid

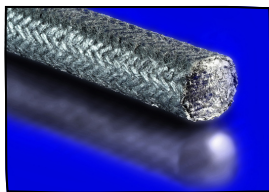
Braided from pure expanded graphite. It is resilient, self-lubricating, chemically inert and thermally conductive. 1100TCP can be used in both in pumps and valves in a wide range of service conditions.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	103	48	33	20	12	10	7	6	5	3.3	2.5	2
lbs./box	N/A	N/A	1or2	5	2or5	5	5	5	5	5	4	30

*May required anti-extrusion rings

*Does not contain carrier

STYLE 1414



Temperature: To 1200°F (650°C)-steam
 pH: 1-12
 Pressure: To 2500 psi (17 bar)
 Construction: Braid over core
 Valves Only

High temperature carbon yarn with inconel wire braided over a resilient core thoroughly impregnated with graphite and corrosion inhibitor.

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
ft./lb	76	39	25	12.6	9.4	7.1	6	4.4	3.8	2.6	2.1	1.5
lbs./box	1	1	2or5	2or5	2or5	5	5	5	5	10	10	10