





COMPRESSION PACKINGS

Revision Date: April 15, 2021

STYLE: FLAX



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
150°F/90°C	5-9	1000 FPM/5 MPS	150 PSI 10 BAR

CONSTRUCTION	Plait Braided
DESCRIPTION	High quality flax and ramie fibers are impregnated with tallow and wax lubricants.
USES	Cold water, brine, and marine services such as stern tubes and rudder posts.

STYLE: 7300



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	2-12	2200 FPM/11 MPS	500 PSI 34 BAR

CONSTRUCTION	Interlock braided (1/8" and 3/16" plaited)
DESCRIPTION	Special acrylic yarn is impregnated with PTFE suspensoid. An inert lubricant is added for ease of start-up.
USES	A general purpose pump and valve packing.

STYLE: 7310



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
450°F/230°C	4-10	1000 FPM/5 MPS	300 PSI 20 BAR

CONSTRUCTION	Interlock braided (1/8" and 3/16" plaited)
DESCRIPTION	A special acrylic yarn blend is impregnated with high temperature lubricant and finished with particulate graphite.
USES	An economical general service packing for moderate pump and valve service.

STYLE: 7320



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	2-12	2200 FPM/11 MPS	500 PSI 34 BAR

CONSTRUCTION	Interlock Braided
DESCRIPTION	Braided from continuous Acrylic blended fiber, and reinforced with durable aramid corners, impregnated with PTFE and a proprietary inert lubricant.
USES	Abrasive slurry applications in centrifugal, rotary, and reciprocating pumps, as well as valves.

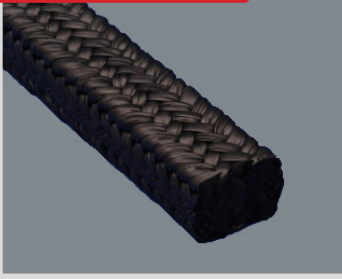
STYLE: 7330



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	2-12	2200 FPM/11 MPS	500 PSI 34 BAR

CONSTRUCTION	Interlock braided (1/8" and 3/16" plaited)
DESCRIPTION	DuPont's continuous filament Kevlar® is impregnated with PTFE and an inert lubricant, then braided into a dense resilient packing.
USES	Pump and valve packing for moderate uses. The high tensile strength of Kevlar® makes this packing ideally suited for slurry and abrasive service.

STYLE: 7500



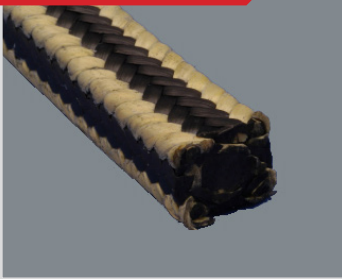
TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
550°F/275°C	0-14	4000 FPM/20 MPS	300 PSI 20 BAR

CONSTRUCTION Interlock braided (1/8 and 3/16" plaited)

DESCRIPTION A PTFE/graphite fiber is braided into a dense packing.

USES Excellent economical multi-purpose packing.

STYLE: 7501



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	2-12	2000 FPM/10 MPS	500 PSI 34 BAR

CONSTRUCTION Interlock braided

DESCRIPTION GFO® Yarn is braided with Kevlar® corners

USES Combined attributes of both materials produce a pump packing with abrasion and extrusion resistance.

STYLE: 7510-FDA



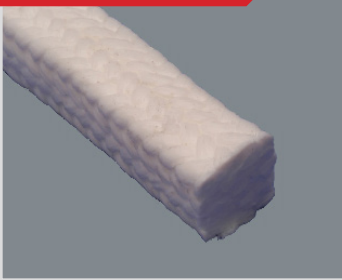
TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	0-14	1000 FPM/5 MPS	300 PSI 20 BAR

CONSTRUCTION Interlock braided (1/8" and 3/16" plaited)

DESCRIPTION Pure PTFE fiber is impregnated with PTFE suspenoid meeting FDA standards.

USES Extreme chemical valve service requiring FDA grade packing.

STYLE: 7520



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	0-14	1800 FPM/9 MPS	300 PSI 20 BAR

CONSTRUCTION Interlock braided (1/8" and 3/16" plaited)

DESCRIPTION Pure PTFE fiber is impregnated with PTFE suspenoid and an inert break-in lubricant.

USES A soft but dense packing for extreme chemical pump services. Not for use with molten alkalis.

STYLE: 7521



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	0-14	N/A	2000 PSI 138 BAR Static

CONSTRUCTION	Interlock Braided
DESCRIPTION	Braided from 100% PTFE filament, and thoroughly impregnated with a PTFE suspensoidal blocking agent.
USES	Ideally suited for chemical process applications where extreme chemical resistance is required.

STYLE: 7522



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
500°F/260°C	2-12	2500 FPM/12 MPS	500 PSI 34 BAR

CONSTRUCTION	Interlock Braided
DESCRIPTION	Braided from high strength Spun Aramid yarn, and thoroughly impregnated with a PTFE dispersion and a proprietary inert lubricant for quick break in.
USES	Easy to cut and install, staying soft and conformable, yet strong enough to handle the toughest abrasive applications.

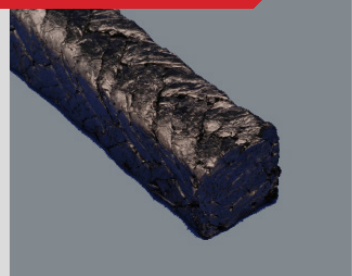
STYLE: 7603



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
600°F/315°C	0-14	3000 FPM/15 MPS	500 PSI 34 BAR Pump 3600 PSI 250 BAR Valve

CONSTRUCTION	Interlock Braided
DESCRIPTION	Braided from a blend of carbon yarns, and impregnated with a proprietary blocking agent. Designed to be highly durable and easy to install.
USES	Typically used for severely caustic or corrosive media, this packing is suited for almost any high speed/high temperature pump or valve.

STYLE: 7800



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
2000°F/230°C	0-14	4000 FPM/20 MPS	2500 PSI/170 BAR-Valves 500 PSI/34 BAR-Pumps

CONSTRUCTION	Plait Braided
DESCRIPTION	Braided from pure expanded flexible graphite.
USES	Flexible Graphite packing with low friction, excellent heat transfer, and chemical resistance. Virtually leak free.

STYLE: 7810



TEMPERATURE	PH RANGE	SHAFT SPEED	PRESSURE
1200°F/650°C	2-13	N/A	3000 PSI 206 BAR

CONSTRUCTION	Inconel inserted heat stabilized fiberglass yarn is braided over a flexible plasticised core. Corrosion inhibitors are added with a high temperature graphite finish.
DESCRIPTION	A high temperature non-asbestos valve stem and expansion joint packing for moderate services.
USES	High temperature steam, gases, and hydrocarbons.

STYLE: 7820

TEMPERATURE

750°F/400°C

PH RANGE

0-14

SHAFT SPEED

2000 FPM/10 MPS

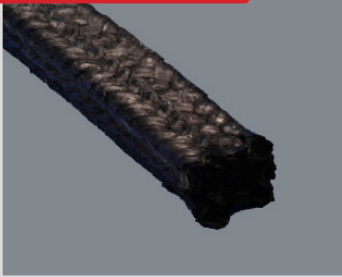
PRESSURE

500 PSI 34 BAR

CONSTRUCTION Interlock braided (1/8 and 3/16" plaited)

DESCRIPTION Carbon yarns are impregnated with a blocking agent with high temp graphite finish added as a break-in lubricant.

USES General service pump and valve packing for use with solvents, petrochemicals, mild acids, and alkalis.

STYLE: 7830

TEMPERATURE

500°F/260°C

PH RANGE

0-14

SHAFT SPEED

4000 FPM/20 MPS

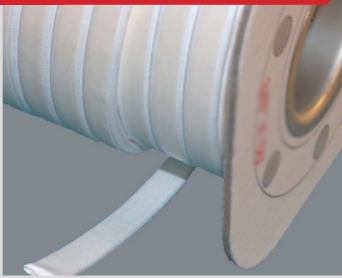
PRESSURE

 2500 PSI/170 BAR-Valve
500 PSI/34 BAR-Pump

CONSTRUCTION Interlock braided

DESCRIPTION GFO® Yarn is braided with Kevlar® corners.

USES Pump and Valve packing for extreme temperature or aggressive chemical applications with high shaft speeds.

STYLE: Teflon Joint Sealant

TEMPERATURE

600°F/315°C

PH RANGE

0-14

SHAFT SPEED

N/A

PRESSURE

3000 PSI 210 BAR

CONSTRUCTION Extrusion

DESCRIPTION Manufactured from continuous 100% Virgin Teflon, conformable, but dimensionally stable gasket tape. An adhesive backing is applied after extrusion to make installation quick and easy.

USES Internally cross fibrillated PTFE is soft enough to conform to worn or uneven surfaces, but dense enough to create a secure seal requiring little adjustment

STYLE: Teflon Valve Cord

TEMPERATURE

500°F/260°C

PH RANGE

0-14

SHAFT SPEED

1800 FPM/9 MPS

PRESSURE

300 PSI 20 BAR

CONSTRUCTION Twisted PTFE cord

DESCRIPTION Manufactured from 100% Teflon; a high density, chemically inert, conformable product with unlimited shelf life. After installation, it remains pliable and continues to seal effectively without hardening.

USES Designed for use as a non-hardening gasket sealant and valve stem packing.





COMPRESSION PACKINGS INFO

Technical Data Sheets

Packing Style: *Flax*



APPLICATION/SERVICE

General service packing used extensively on shipboard for stern tubes, rubber posts, and water pumps.

CONSTRUCTION

Flax packing is square braided and lubricated. The high quality flax is lubricated with tallow and/or wax.

TEMPERATURE

Maximum: 220° F

PRESSURE

N/A

SHAFT SPEED

1000 fpm

PH RANGE

6-8

Thickness	ft/lb
1/8"	100
3/16"	54
1/4"	28
5/16"	20
3/8"	14.1

Thickness	ft/lb
1/2"	8.6
5/8"	5.8
3/4"	3.9
7/8"	2.9
1"	2.3

Packing Style: 7300



APPLICATION/SERVICE

Style 7300 is an excellent multi-service packing that finds a wide variety of uses throughout a plant. It handles steam, water, solvents, oils, mild acids and alkalies, and a broad range of other chemicals. It is white in color and will not discolor the flow media. Style 7300 is recommended for use in centrifugal, rotary and reciprocating pumps and also mixers, agitators, and expansion joints.

CONSTRUCTION

Style 7300 is an interlock braid using carded synthetic yarns thoroughly impregnated with PTFE suspensoid. The finished packing is again coated with PTFE dispersion and a break-in lubricant is added to reduce shaft wear and eliminate glazing at start up.

TEMPERATURE

Minimum: -150°F (-100°C)
Maximum: 450°F (320°C)

PRESSURE

Rotating 300 psi (20 bar)
Reciprocating 300 psi (20 bar)
Static 725 psi (50 bar)

SHAFT SPEED

2350 fpm

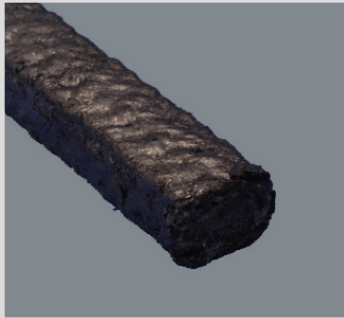
PH RANGE

2-12

Thickness	ft/lb	Thickness	ft/lb
1/8"	97	1/2"	6.6
3/16"	43	9/16"	RFQ
1/4"	25	5/8"	4.4
5/16"	16.5	3/4"	3.1
3/8"	11.8	7/8"	2.3
7/16"	RFQ	1"	1.85

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7310



APPLICATION/SERVICE

Style 7310 is a dense, but flexible general service packing that adapts well to worn or scored shafts often found in older equipment. It assures an excellent seal against steam, brine, oil, and mild acids and alkalis. Style 7310 packing is well-suited for applications in rotary and centrifugal pumps and some valves.

CONSTRUCTION

Style 7310 is an interlock braid using carded synthetic yarns thoroughly impregnated with a special petroleum based lubricant and graphite.

TEMPERATURE

Minimum: -150°F (-100°C)
Maximum: 450°F (320°C)

PRESSURE

Rotating 300 psi (20 bar)
Reciprocating 300 psi (20 bar)
Static 725 psi (50 bar)

SHAFT SPEED

2000 fpm (15 m/s)

PH RANGE

4-10

Thickness	ft/lb	Thickness	ft/lb
1/8"	105	1/2"	8.6
3/16"	60	9/16"	RFQ
1/4"	38	5/8"	5.9
5/16"	25	3/4"	4.2
3/8"	17.5	7/8"	3.3
7/16"	RFQ	1"	2.3

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7320



Non-contaminating packing for pumps where high-speed traits of acrylic yarn and abrasive resistant. Aramid extend packing life.

CONSTRUCTION

Braided from continuous Acrylic blended fiber, and reinforced with durable aramid corners, Style 7320 is impregnated with PTFE and a proprietary inert lubricant.

Style 7320 packing is also a non-staining, non-contaminating packing with excellent abrasion resistance. A durable resilient packing ideally suited for abrasive slurry applications in centrifugal, rotary, and reciprocating pumps, as well as valves. Our proprietary lubricant is used for extremely low friction at start up and during operation.

TEMPERATURE

Maximum: 500°F (260°C)

PRESSURE

500 psi (34 bar)

SHAFT SPEED

2200 fpm (11 m/s)

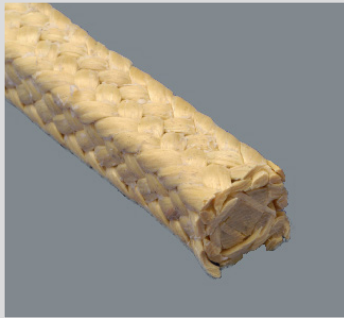
PH RANGE

2-12

Thickness	ft/lb	Thickness	ft/lb
1/8"	N/A	1/2"	6.6
3/16"	N/A	5/8"	4.7
1/4"	26	3/4"	3.3
5/16"	18	7/8"	2.5
3/8"	13	1"	1.8

Packing is sold per LB – Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7330



APPLICATION/SERVICE

An extremely durable packing able to withstand granular and abrasive applications. It is recommended for service in steam, slurries, petroleum derivatives, solvents and liquified gases. It is commonly used in centrifugal, rotary and reciprocating pumps, agitators and mixers, especially in the paper, steel, petroleum and chemical industries, and in sewage treatment plants.

CONSTRUCTION

An interlock braided packing using Kevlar yarn treated with PTFE suspensoid. The packing is also lubricated with mineral oil for quick and easy break-in.

TEMPERATURE

Minimum: -150°F (-100°C)
Maximum: 540°F (280°C)

PRESSURE

Rotating 500 psi (35 bar)
Reciprocating 2900 psi (200 bar)
Static 3600 psi (250 bar)

SHAFT SPEED

2950 fpm (15 m/s)

PH RANGE

2-12

Thickness	ft/lb	Thickness	ft/lb
1/8"	99	1/2"	6.6
3/16"	48	9/16"	RFQ
1/4"	26	5/8"	4.4
5/16"	17	3/4"	3.1
3/8"	12.2	7/8"	2.1
7/16"	RFQ	1"	1.7

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7500



Chemically inert over the entire 0–14 pH range with these exceptions: molten alkali metals, fluorides, oleum, fuming nitric acid, aqua regia, and other strong oxidizing agents. An excellent general service and corrosive service packing. It is commonly used in pumps, in valves, in rotating and reciprocating shafts, in mixers and agitators, and is especially designed for services involving surface speeds and temperatures higher than

those that can be handled by pure PTFE packings.

CONSTRUCTION

Style 7500 packing is an interlock braid, utilizing EG2 PTFE/graphite yarn and a high temperature break-in lubricant. EG2 yarn is formed from expanded PTFE in which fine particles of pure graphite have been encapsulated. The resulting packing combines the chemical resistance of PTFE with the heat dissipation characteristics of graphite, thus allowing much higher shaft speeds than conventional PTFE packings.

TEMPERATURE

Minimum: -328°F (-200°C)
Maximum: 540°F (280°C)

PRESSURE

Rotating 500 psi (35 bar)
Reciprocating 1450 psi (100 bar)
Static 2900 psi (200 bar)

SHAFT SPEED

4900 fpm (25 m/s)

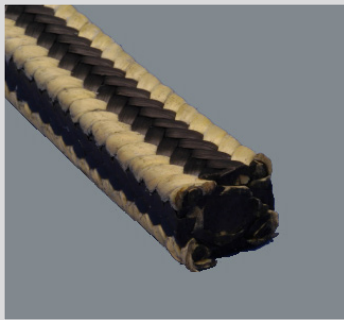
PH RANGE

0–14

Thickness	ft/lb	Thickness	ft/lb
1/8"	82	1/2"	6.3
3/16"	42	9/16"	RFQ
1/4"	23	5/8"	4.1
5/16"	15.6	3/4"	2.9
3/8"	11.7	7/8"	2.1
7/16"	RFQ	1"	1.75

Packing is sold per LB – Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7501



APPLICATION / SERVICE

This packing can handle a broad range of chemicals in the 2–12 pH range. It is used in paper mill stock pumps, agitators, or any service where high strength and good lubricating qualities are needed.

CONSTRUCTION

This packing is an interlock braid of EG2 PTFE/graphite yarn, that is reinforced with high strength aramid yarn corners. EG2 yarn is formed from expanded PTFE in which fine particles of graphite have been encapsulated. The resulting packing provides good chemical resistance and heat dissipation plus anti-extrusion strength.

TEMPERATURE

Minimum: -240°F (-150°C)
Maximum: 540°F (280°C)

PRESSURE

Rotating 435 psi (30 bar)
Reciprocating 2900 psi (200 bar)
Static 2900 psi (200 bar)

SHAFT SPEED

3900 fpm (20 m/s)

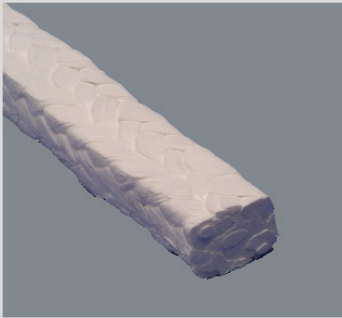
PH RANGE

2–12

Thickness	ft/lb	Thickness	ft/lb
1/4"	23	9/16"	RFQ
5/16"	15	5/8"	3.9
3/8"	10.4	3/4"	2.7
7/16"	RFQ	7/8"	2.1
1/2"	5.8	1"	1.57

Packing is sold per LB – Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7510-FDA



APPLICATION/SERVICE

Style 7510FDA resists most caustic media and is commonly used in centrifugal and rotary food processing equipment. It is also used in blenders, mixers, cookers, dryers and pumps.

CONSTRUCTION

Style 7510-FDA is a firm, pliable interlock braided packing manufactured from the purest PTFE filaments. A proprietary food grade lubricant provides faster break-in and reduced shaft wear. Style 7510-FDA complies with the F.D.A. and U.S.D.A. requirements under Title 21 Food and Drugs:

- Part 177.1550—Perfluorocarbon Resins
- Part 172.878—Lubricants with Incidental Food Contact

TEMPERATURE

Minimum: -328°F (-200°C)
Maximum: 540°F (280°C)

PRESSURE

Rotating 435 psi (30 bar)
Reciprocating 435 psi (200 bar)
Static 1450 psi (100 bar)

SHAFT SPEED

2350 fpm (12 m/s)

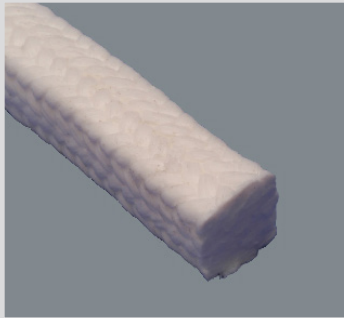
PH RANGE

0-14

Thickness	ft/lb	Thickness	ft/lb
1/8"	82	1/2"	5.7
3/16"	47	9/16"	RFQ
1/4"	22	5/8"	4
5/16"	15.2	3/4"	2.9
3/8"	10.9	7/8"	2.2
7/16"	RFQ	1"	1.6

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7520



APPLICATION/SERVICE

Style 7520 is a dimensionally stable packing, yet relatively soft and pliable, which has excellent lubricating and running characteristics. It handles all acids, alkalis, and most chemicals, with the exception of molten alkali metals. It is suited for high speed rotary shaft service and is also commonly used on reciprocating pumps, mixers, agitators, and reactors. NOTE: For services where lubricants other than PTFE cannot

be tolerated, Style 7521 packing is recommended. For FDA and food service applications, Style 7510 is recommended.

CONSTRUCTION

Style 7520 is a soft and pliable interlock braided packing manufactured from pure PTFE filaments pretreated with PTFE dispersion, plus a break-in lubricant to reduce the coefficient of friction.

TEMPERATURE

Minimum: -328°F (-200°C)
Maximum: 540°F (280°C)

PRESSURE

Rotating 435 psi (30 bar)
Reciprocating 435 psi (30 bar)
Static 1450 psi (100 bar)

SHAFT SPEED

2350 fpm (12 m/s)

PH RANGE

0-14

Thickness	ft/lb	Thickness	ft/lb
1/8"	68	1/2"	5.9
3/16"	41	9/16"	RFQ
1/4"	22	5/8"	3.7
5/16"	14.5	3/4"	2.6
3/8"	10.6	7/8"	1.9
7/16"	RFQ	1"	1.5

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7521



APPLICATION/SERVICE

With no sacrificial lubricants to wear out, Style 7521 is long lasting, with an extremely low coefficient of friction and excellent heat dispersion. Ideally suited for chemical process applications where extreme chemical resistance is required.

CONSTRUCTION

Style 7521 is a firm, high density interlock braided packing manufactured from pure PTFE filaments and pretreated with PTFE resin, but contains no other lubricants. The PTFE resin provides a low friction surface finish and prevents leakage through the braid.

TEMPERATURE

Minimum: -328°F (-200°C)
Maximum: 540°F (280°C)

PRESSURE

Rotating 215 psi (15 bar)
Reciprocating 2150 psi (150 bar)
Static 3600 psi (250 bar)

SHAFT SPEED

1000 fpm (5 m/s)

PH RANGE

0-14

Thickness	ft/lb	Thickness	ft/lb
1/8"	79	1/2"	6.7
3/16"	39	9/16"	RFQ
1/4"	25	5/8"	4.4
5/16"	16	3/4"	3.3
3/8"	11.6	7/8"	2.3
7/16"	RFQ	1"	1.91

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7522



APPLICATION/SERVICE

Style 7522 is easy to cut and install, staying soft and conformable, yet strong enough to handle the toughest abrasive applications. Style 7522 is also non-staining and non-contaminating, combining superior strength with superior sealing.

CONSTRUCTION

Braided from high strength Spun Aramid yarn, Style 7522 is thoroughly impregnated with a PTFE dispersion and a proprietary inert lubricant for quick break in.

TEMPERATURE

Maximum: 500°F (260°C)

PRESSURE

500 psi (34 bar)

SHAFT SPEED

2500 fpm (12 m/s)

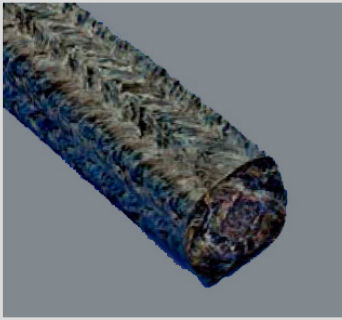
PH RANGE

2-12

Thickness	ft/lb	Thickness	ft/lb
1/8"	81	1/2"	5.6
3/16"	37	5/8"	3.7
1/4"	24	3/4"	2.9
5/16"	14.4	7/8"	2.3
3/8"	10.2	1"	1.58

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7603



Style 7603 packing can handle chemicals over the entire 0–14 pH range except for strong oxidizers. It is very popular in the pulp and paper industry because it is especially designed for applications involving strong caustics, acids, bleaches, slurries, and services where contamination cannot be tolerated. Style 7603 is commonly used in valves and pumps, agitators, reactors, and autoclaves.

CONSTRUCTION

Style 7603 packing is an interlock braid of carbon fibers which are carefully impregnated with PTFE. The resulting packing is very tough, resists wear, has excellent chemical resistance and prevents contamination.

TEMPERATURE

Minimum: -200°F (-130°C)
Maximum: 450°F (320°C)

PRESSURE

Rotating 500 psi (35 bar)

SHAFT SPEED

3000 fpm (15 m/s)

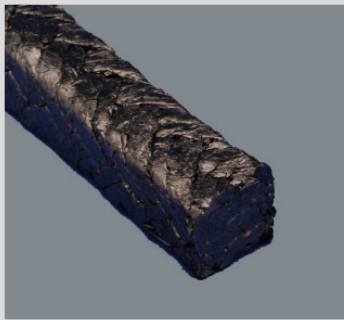
PH RANGE

0–14 (except strong oxidizers)

Thickness	ft/lb	Thickness	ft/lb
1/8"	89	1/2"	6.2
3/16"	42	5/8"	4.1
1/4"	22	3/4"	2.9
5/16"	15.3	7/8"	1.98
3/8"	10.6	1"	1.4

Packing is sold per LB – Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7800



APPLICATION/SERVICE

The outstanding properties of Style 7800 make it a truly multi-service packing capable of a wide variety of uses throughout a plant. Style 7800 may be used in valves, pumps, expansion joints, mixers and agitators in the hostile environments of hydrocarbon processing, pulp and paper, power generation, metal-working and other industries where effective sealing is vital.

CONSTRUCTION

Style 7800 packing is manufactured from high purity flexible graphite that is expanded and formed into a braidable yarn and then braided without binders or wire reinforcement. The finished product retains all the inherent benefits of flexible graphite: heat resistance, chemical inertness, low friction, self lubrication, and ready conformability.

TEMPERATURE

Minimum: -400°F (-240°C)

Maximum:

- In air, 840°F (450°C)
- In steam, 1200°F (650°C)
- In inert gas, 1830°F (1000°C)

PRESSURE

Rotating 435 psi (30 bar)

Reciprocating 2900 psi (200 bar)

Static 4350 psi (300 bar)

SHAFT SPEED

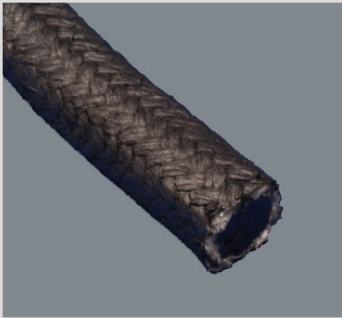
3900 fpm (20 m/s)

PH RANGE

0-14 (except strong oxidizers)

Thickness	ft/lb	Thickness	ft/lb
1/8"	106	1/2"	9.1
3/16"	51	9/16"	RFQ
1/4"	33	5/8"	5.6
5/16"	19	3/4"	4.3
3/8"	14.1	7/8"	3.2
7/16"	RFQ	1"	2.3

Packing Style: 7810



Style 7810 is a firm, high density, non-asbestos packing. It can handle steam, most chemicals, mild acids, and alkalis. It is excellent for use in steam turbines, high temperature motoractuated slide valves, and in high pressure/high temperature valving in general.

CONSTRUCTION

Style 7810 packing is a proprietary braid-over-core construction, using a special high temperature, Inconel reinforced fiber and a non-hardening core. The packing is impregnated with a high temperature resistant compound, and coated with fine particles of graphite to act as a surface lubricant. Style 7810 is also treated with a sacrificial material to alleviate electrolytic action.

TEMPERATURE

Maximum: 1200°F (650°C)

PRESSURE

Static 4350 psi (300 bar)

SHAFT SPEED

400 fpm (2 m/s)

PH RANGE

2-12

Thickness	ft/lb	Thickness	ft/lb
1/8"	92	1/2"	6.8
3/16"	43	9/16"	RFQ
1/4"	25	5/8"	4.7
5/16"	17.9	3/4"	3.2
3/8"	12.7	7/8"	2.4
7/16"	RFQ	1"	1.85

Packing is sold per LB – Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7820



APPLICATION/SERVICE

Style 7820 handles water, steam, boiler feed, and aqueous solutions of acids and alkalis. In service, it seats quickly and does not require extensive break-in adjustments. Style 7820 is commonly used for high speed pumps, blowers, dryers, high temperature valves, and furnace gasketing.

CONSTRUCTION

Style 7820 packing is manufactured from pure carbon yarn, which is interlock braided and impregnated with proprietary lubricants and graphite particles which fill voids, block leakage, and act as a break-in lubricant. The end product has a low coefficient of friction and tends to wear more evenly than most braided packings.

TEMPERATURE

- Minimum: -400 °F (-240 °C)
 Maximum:
- In air 800 °F (430 °C)
 - In steam 1110 °F (600 °C)

PRESSURE

Rotating 365 psi (25 bar)
 Static 2900 psi (200 bar)

SHAFT SPEED

3900 fpm (20 m/s)

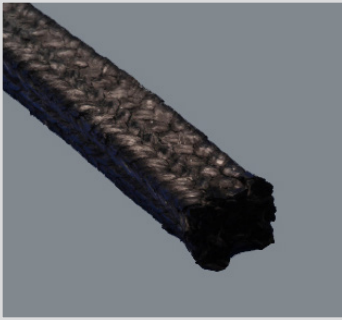
PH RANGE

0-14 (except strong oxidizers)

Thickness	ft/lb	Thickness	ft/lb
1/8"	102	1/2"	7.8
3/16"	49	9/16"	RFQ
1/4"	28	5/8"	5.1
5/16"	19.5	3/4"	3.5
3/8"	13.4	7/8"	2.6
7/16"	RFQ	1"	2.1

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: 7830



Style 7830 packing is ideally suited for use in severe service valves and rotary shaft applications. It handles strong acids and alkali solutions except fuming nitric acid, oleum and fluorine. It can be used to seal steam, water, oil, solvents, alkalies, and acids. It is often used as end rings for packing sets utilizing softer packings that might tend to extrude. Style 7830 also handles high temperatures, extremely high shaft speeds (see Service Limits below), most strong chemicals, and reduces shaft wear.

CONSTRUCTION

Style 7830 packing is a rugged premium grade, low friction, high strength, proprietary graphite fiber, twisted together and interlock braided. Style 7830 is treated with pure graphite powder to provide a bearing film and protect shafts from scoring. It also acts as a blocking agent to prevent wicking.

TEMPERATURE

Minimum: -400 °F (-240 °C)

Maximum:

- In air 840 °F (450 °C)
- In steam 1200 °F (650 °C)

PRESSURE

Rotating 435 psi (30 bar)

Reciprocating 1450 psi (100 bar)

Static 4350 psi (300 bar)

SHAFT SPEED

3900 fpm (20 m/s)

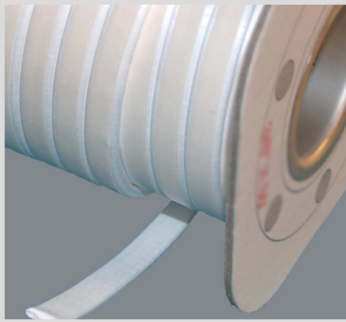
PH RANGE

0-14 (except strong oxidizers)

Thickness	ft/lb	Thickness	ft/lb
1/8"	120	1/2"	8.3
3/16"	60	9/16"	RFQ
1/4"	30	5/8"	5.3
5/16"	19.2	3/4"	3.3
3/8"	13.7	7/8"	2.5
7/16"	RFQ	1"	2

Packing is sold per LB - Length values (ft/lb) are approximate and for Reference Only

Packing Style: Teflon Joint Sealant



APPLICATION/SERVICE

Joint Sealant is soft and marshmallow-like, allowing it to readily conform to and seal flanges with irregular and damaged surfaces. Joint Sealant is recommended for the following sealing applications:

- Steel pipe flanges
- Heat exchangers
- Manhole and handhole covers
- Glass-lined pipe flanges
- Fiber glass reinforced vessels
- Ceramic joints
- Fiber glass pipe flanges
- Pump housing flanges
- Ventilation ducts
- Plastic pipe flanges
- Compressor housing flanges
- Hydraulic and pneumatic systems
- Fume ducts
- Turbine cases
- Water supply systems

CONSTRUCTION

Joint Sealant is produced by expanding 100% virgin PTFE into a highly fibrillated structure which exhibits characteristics significantly different than conventional PTFE. The expanded PTFE is more flexible than regular PTFE and thus conforms easily to irregular and rough surfaces. In addition, the expanded material is easier to compress and exhibits excellent resistance to creep and cold flow. Joint Sealant is supplied as a continuous tape with a self-adhesive backing strip to facilitate easy installation.

Standard Packaging (Width × Spool Length)	
1mm × 100'	1/2" × 15'
1/8" × 50'	1/2" × 30'
1/8" × 100'	1/2" × 150'
1/8" × 500'	5/8" × 15'
3/16" × 75'	5/8" × 30'
3/16" × 150'	5/8" × 150'
3/16" × 750'	3/4" × 15'
1/4" × 50'	3/4" × 30'
1/4" × 100'	3/4" × 100'
1/4" × 500'	1" × 15'
3/8" × 25'	1" × 30'
3/8" × 50'	1" × 75'
3/8" × 250'	

Flange Size	Joint Sealant Width
Up to 1/2" dia.	1/8"
3/4" to 1-1/2"	3/16"
2" to 4"	1/4"
5" to 8"	3/8"
10" to 16"	1/2"
18" to 24"	5/8"
24" to 36"	3/4"
36" +	1"

TEMPERATURE

Minimum: -450°F (-268°C)
Maximum: 600°F (315°C)

PRESSURE

Full vacuum to 2900 psi (200 bar)

SHAFT SPEED

N/A

PH RANGE

0-14
(except molten alkali metals and elemental fluorine)

Packing Style: Teflon Valve Cord



TVC a very workable packing which conforms easily to worn valve stems and stuffing boxes, yet forms a very high density packing when compressed. It will handle virtually all chemicals in the 0 – 14 pH range and will not contaminate flow media. TVC is ideal for service in the food processing, beverage and pharmaceutical industries and is also commonly used for pulp and paper and general chemical applications.

CONSTRUCTION

TVC valve stem packing utilizes 100% pure expanded PTFE in a unique braid-overbraid-over-core construction with a round cross section. This unique construction produces a firm but conformable packing that handles higher pressures than competitive products.

TEMPERATURE

Minimum: -450°F (-268°C)
Maximum: 600°F (315°C)

PRESSURE

Static 1450 psi (100 bar)

SHAFT SPEED

200 fpm (1 m/s)

PH RANGE

0-14
(except molten alkali metals and elemental fluorine)

Standard Packaging (Width × Spool Length)

1/16" × 50'	1/4" × 12'
3/32" × 25', 50'	9/32" × 9'
1/8" × 25'	5/16" × 7'
5/32" × 25'	3/8" × 7'
3/16" × 25'	1/2" × 12'
7/32" × 15'	5/8" × 9'

Valve Size Packing Dia.

1/8" to 1"	1/16", 3/32"
1-1/2" to 3"	1/8", 5/32"
3-1/2" to 6"	3/16", 7/32"
8" to 12"	1/4", 9/32", 5/16"
Other Available Sizes	3/8", 1/2", 5/8"