



AMERICAN BRAIDING



FLUID SEALING PRODUCTS

ABOUT AMERICAN BRAIDING

American Braiding and Manufacturing Company has been in business since 1978, manufacturing the most complete line of high quality mechanical packings in the Northeast. Located in a modern 25,000 square foot facility in central New Jersey we serve the following markets:

**INDUSTRIAL
EXPORT
MARINE
PULP & PAPER**

**MILITARY
POWER GENERATION
PETRO CHEMICAL
TANKLID**

American Braiding is large enough to have the financial strength and inventory levels you desire, but we are small enough to react to your emergency requirements. Our ability to work with you to develop custom products is unmatched.

We look forward to serving you!

Jerry Bailey, CEO

MANUFACTURING TOLERANCES

Compression packings are manufactured from a wide range of materials. Therefore, the dimensional tolerances of the finished product will vary. We guarantee that the tolerances of products we manufacture meet or exceed those specified by the FLUID SEALING ASSOCIATION, as listed below;

To 1/4"	± 1/64"
1/4" to 1"	± 1/32"
Over 1"	± 1/16"

LIMITED WARRANTY

American Braiding and Manufacturing Company warrants that all products described herein are free from defects in materials and workmanship, but American Braiding limits its obligation under this warranty to repairing or replacing defective products. American Braiding makes no other representation, warranty, or guarantee, whether expressed or implied. Since American Braiding has no control over how its products are used, we do not warrant products for a specific use or length of time.

MILITARY SPECIFICATIONS

Many American Braiding products already meet military specifications. Additional products in our line up will meet military specifications with some modification. If you have these needs please contact our Sales Department for assistance.

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STYLE 300

- DESCRIPTION:** Aramid Filament is impregnated with PTFE and an inert lubricant, then braided into a dense resilient packing.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 500° F 260° C
- PH RANGE:** 2 – 12
- SHAFT SPEED:** 2200 FPM 11 MPS
- PRESSURE:** 500 PSI 34 BAR
- USES:** Pump and valve packing for moderate uses. The high tensile strength of Aramid makes this packing ideally suited for slurry and abrasive service.



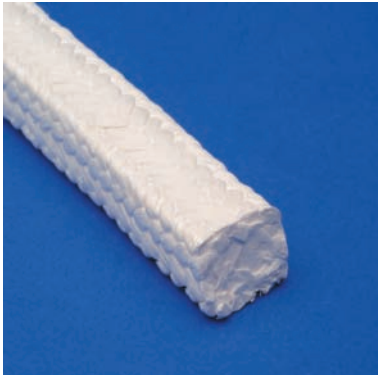
STYLE 310

- DESCRIPTION:** White meta aramid fiber impregnated with PTFE suspensoid and break in lubricant.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 500° F 260° C
- PH RANGE:** 1 - 13
- SHAFT SPEED:** 1500 FPM 7.6 MPS
- PRESSURE:** 300 PSI 20 BAR
- USES:** Pliable and abrasion resistant, this packing stands up to chemical attack and breakdown. Suitable for agitators, mixers, and stock pumps among others.



STYLE 320

- DESCRIPTION:** Kynol, a type of phenolic fiber, is impregnated with PTFE suspensoid. A special non-contaminating break in lube is added.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 500° F 260° C
- PH RANGE:** 1-13
- SHAFT SPEED:** 1500 FPM 7.6 MPS
- PRESSURE:** 500 PSI 34 BAR
- USES:** Moderate pump and valve services. Not for sulfuric acids or strong bases.



STYLE 344

- DESCRIPTION:** PTFE fiber impregnated with PTFE suspensoid. Braided into a dense packing the low coefficient of friction of PTFE reduces adjustment after installation.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 500° F 260° C
- PH RANGE:** 0 - 14
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 300 PSI 20 BAR
- USES:** Extreme chemical valve service.



STYLE 344FDA

- DESCRIPTION:** Pure Interlock braided PTFE fiber meeting FDA standards.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 500° F 260° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 300 PSI 20 BAR
- USES:** Extreme chemical valve service requiring FDA grade packing.

STYLE 344-SC

DESCRIPTION: Same as 344 with a silicone rubber core.

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

TEMPERATURE: 500° F 260° C

PH RANGE: 0-14

SHAFT SPEED: 1000 FPM 5 MPS

PRESSURE: 300 PSI 20 BAR

USES: Same as 344 but designed for worn shaft applications.



STYLE 344BIL

DESCRIPTION: Pure PTFE fiber is impregnated with PTFE suspensoid and an inert break in lubricant.

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

TEMPERATURE: 500° F 260° C

PH RANGE: 0-14

SHAFT SPEED: 1800 FPM 9 MPS

PRESSURE: 300 PSI 20 BAR

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



STYLE 344BIL-SC

DESCRIPTION: Pure PTFE fiber is impregnated with PTFE suspensoid and an inert break in lubricant, with rubber core.

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

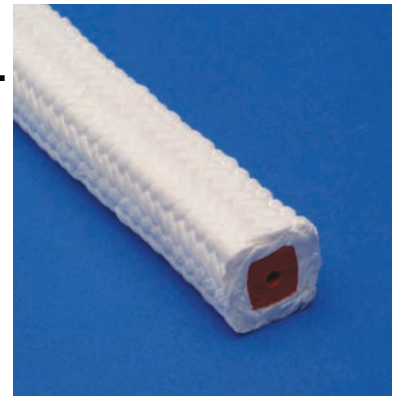
TEMPERATURE: 500° F 260° C

PH RANGE: 0-14

PRESSURE: 1800 FPM 9 MPS

SHAFT SPEED: 300 PSI 20 BAR

USES: Same as 344BIL but designed for worn shaft applications.



STYLE 344T

DESCRIPTION: Pure PTFE fiber is impregnated with PTFE suspensoid and an inert break in lube. Also available without lube.

CONSTRUCTION: Hollow braided and calendared to shape

TEMPERATURE: 500° F 260° C

PH RANGE: 0-14

SHAFT SPEED: N/A

PRESSURE: 300 PSI 20 BAR

USES: A flexible and conformable gasket material for glass lined and other chemical equipment.



STYLE 345

DESCRIPTION: High quality flax and ramie fibers are impregnated generously with PTFE suspensoid and an inert lubricant.

CONSTRUCTION: Plait braided

TEMPERATURE: 200° F 90° C

PH RANGE: 5-11

SHAFT SPEED: 1200 FPM 6 MPS

PRESSURE: 300 PSI 20 BAR

USES: Used in marine applications such as stern tubes and rudder posts.





STYLE 359

- DESCRIPTION:** Unique packing designed to handle the special needs of the chemical transportation industry.
- CONSTRUCTION:** Braided PTFE Jacket over polypropylene fibers and PTFE wrapped elastomeric core
- TEMPERATURE:** 1000° F 540° C
- PH RANGE:** 0-14
- SHAFT SPEED:** N/A
- PRESSURE:** N/A
- USES:** Used to seal tank covers, hatches and lids thru repeated cycles against aggressive chemicals.



STYLE 895

- DESCRIPTION:** Uncoated soft annealed copper wire is plait braided into a dense but very flexible packing.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 1000° F 540° C
- PH RANGE:** 3-10
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 1000 PSI 68 BAR
- USES:** Used as anti-extrusion rings.



STYLE 921

- DESCRIPTION:** High quality flax and ramie fibers are impregnated with tallow and wax lubricants.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 150° F 90° C
- PH RANGE:** 5-9
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 150 PSI 10 BAR
- USES:** Cold water, brine, and marine services such as stern tubes and rudder posts.



STYLE 921G

- DESCRIPTION:** Same as 921 but surface lubricated with graphite to reduce friction.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 150° F 90° C
- PH RANGE:** 5-9
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 150 PSI 10 BAR
- USES:** Heavy duty hydraulic packing for marine applications involving cold water or oil.



STYLE 3000G

- DESCRIPTION:** A special acrylic yarn blend is impregnated with high temp lubricant and finished with particulate graphite.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 450° F 230° C
- PH RANGE:** 4-10
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 300 PSI 20 BAR
- USES:** An economical general service packing for moderate pump and valve service.

STYLE 3000N

DESCRIPTION: A special acrylic yarn is impregnated with PTFE suspensoid.

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

TEMPERATURE: 500° F 260° C

PH RANGE: 2-12

SHAFT SPEED: 2200 FPM 11 MPS

PRESSURE: 500 PSI 34 BAR

USES: A tough economical packing for pumps, valves and static seals.



STYLE 3000T

DESCRIPTION: Special acrylic yarn is impregnated with PTFE suspensoid. An inert lubricant is added for ease of start up.

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

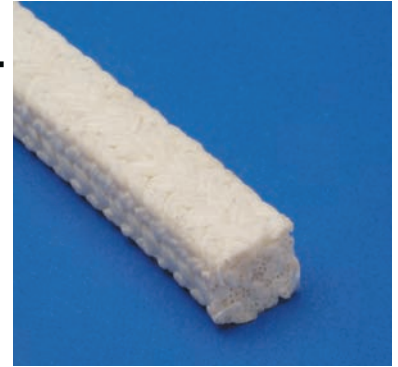
TEMPERATURE: 500° F 260° C

PH RANGE: 2-12

SHAFT SPEED: 2200 FPM 11 MPS

PRESSURE: 500 PSI 34 BAR

USES: A general purpose pump and valve packing.



STYLE 3000T-K

DESCRIPTION: Special acrylic yarn impregnated with PTFE suspensoid and an inert lubricant for ease of start up. Also with Aramid corners.

CONSTRUCTION: Interlock braided

TEMPERATURE: 500° F 260° C

PH RANGE: 2-12

SHAFT SPEED: 2200 FPM 11 MPS

PRESSURE: 500 PSI 34 BAR

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



STYLE 3030INA

DESCRIPTION: A high temperature non-asbestos valve stem and expansion joint packing for moderate services.

CONSTRUCTION: Inconel inserted heat stabilized fiberglass yarn is braided over a flexible plasticised core. Corrosion inhibitors are added with a high temperature graphite finish.

TEMPERATURE: 1200° F 650° C

PH RANGE: 2-13

SHAFT SPEED: N/A

PRESSURE: 3000 PSI 206 BAR

USES: High temperature steam, gases, and hydrocarbons.



STYLE 4000

DESCRIPTION: Non-staining carbon yarns are impregnated with PTFE as a blocking agent.

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

TEMPERATURE: 550° F 290° C

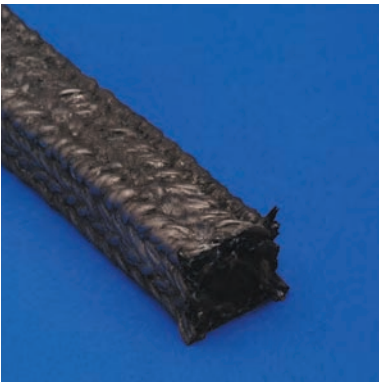
PH RANGE: 0-14

SHAFT SPEED: 2000 FPM 10 MPS

PRESSURE: 500 PSI 34 BAR

USES: General service pump and valve packing where a high quality non-staining packing is required.





STYLE 4000G

- DESCRIPTION:** Carbon yarns are impregnated with a blocking agent with high temp graphite finish added as a break in lubricant.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 750° F 400° C
- PH RANGE:** 0 - 14
- SHAFT SPEED:** 2000 FPM 10 MPS
- PRESSURE:** 500 PSI 34 BAR
- USES:** General service pump and valve packing for use with solvents, petrochemicals, mild acids, and alkalis.



STYLE 5000

- DESCRIPTION:** Braided from pure expanded flexible graphite.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 2000° F 1100° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 2500 PSI/170 BAR Valves 500 PSI/34 BAR Pumps
- USES:** A virtually leak free flexible graphite packing with low friction, excellent heat transfer and chemical resistance.



STYLE 5000C/5000CC

- DESCRIPTION:** Same applications as 5000 but 5000C has corners of carbon yarn and 5000CC has a carbon core.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 2000° F 1100° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 2500 PSI/170 BAR Valves 500 PSI/34 BAR Pumps
- USES:** Same as 5000 with extrusion and higher extrusion and abrasion resistance.



STYLE 5000-OCC

- DESCRIPTION:** Braided from pure expanded flexible graphite with outside carbon yarn corners.
- CONSTRUCTION:** Interlock braided
- TEMPERATURE:** 5000° F 2760° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4800 FPM 22 MPS
- PRESSURE:** 5000 PSI/340 BAR Valves 500 PSI/34 BAR Pumps
- USES:** Extreme pump and valve applications requiring superior extrusion and abrasion resistance.



STYLE 5000I

- DESCRIPTION:** High Density, Inconel reinforced, flexible graphite with colloidal graphite coating.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 1500° F 800° C
- PH RANGE:** 2-14
- SHAFT SPEED:** Does Not Apply
- PRESSURE:** 4500 PSI 310 BAR
- USES:** Extreme service valve packing designed to meet API 589/607 fire test standards.

STYLE 5000I-FE

- DESCRIPTION:** Inconel reinforced expanded flexible graphite and coated with colloidal graphite to further densify the packing.
- CONSTRUCTION:** Combines internally sprung high pressure/high temp graphite core centered inside carbon inserted flexible graphite
- TEMPERATURE:** 6000 ° F 315 ° C
- PH RANGE:** 1 to 14
- SHAFT SPEED:** Does Not Apply
- PRESSURE:** 4500 PSI 310 Bar
- USES:** This packing has been tested and certified to Fugitive Emission Standards API 589/607. For valve service only.



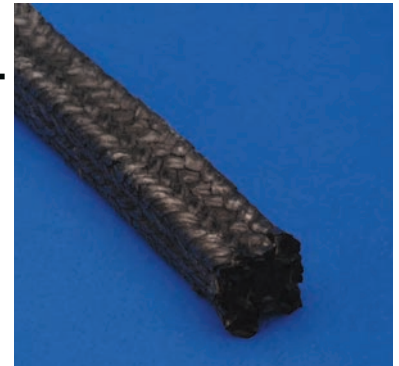
STYLE 5000T

- DESCRIPTION:** Flexible graphite yarn impregnated with PTFE and inert lube. High density packing provides excellent anti-extrusion features.
- CONSTRUCTION:** Plait braided
- TEMPERATURE:** 550° F 90° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 500 PSI 275 BAR
- USES:** Excellent multi-purpose packing for pumps and valves, with good chemical resistance and heat dissipation properties.



STYLE 8000

- DESCRIPTION:** Pure nuclear grade graphite filament is braided and treated with a special graphite coating to eliminate fraying.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 3500° F 1910° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 2500 PSI/170 BAR Valve 500 PSI/34 BAR Pump
- USES:** For extreme valve service, can be used effectively as a wiper ring or cushioning ring.



STYLE 8000G

- DESCRIPTION:** Pure graphite yarns are impregnated with a proprietary blocking agent. High quality graphite lubricant is added.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 1200° F 650° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 2500 PSI/170 BAR Valve 500 PSI/34 BAR Pump
- USES:** Pump and valve packing for extreme temperature or aggressive chemical applications with high shaft speeds.



STYLE 8000LC

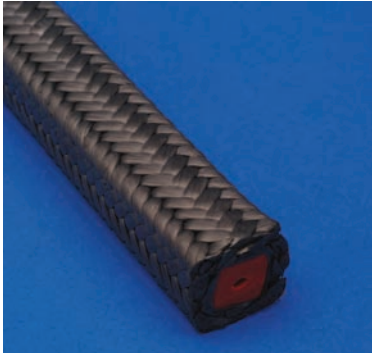
- DESCRIPTION:** Industrial grade graphite filament treated with a special graphite coating to eliminate fraying.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 3500° F 1900° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 2500 PSI/170 BAR Valve 500 PSI/34 BAR Pump
- USES:** Pump and valve packing for extreme temperature or aggressive chemical applications with high shaft speeds.





STYLE 8000T

- DESCRIPTION:** W.L. Gore's patented GFO® fiber yarn is braided by a special technique into a dense but conformable packing.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 550° F 290° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 1800 PSI/124 BAR Valve 300 PSI/20 BAR Pump
- USES:** Multi-purpose packing for acids, alkalis, solvents and steam.



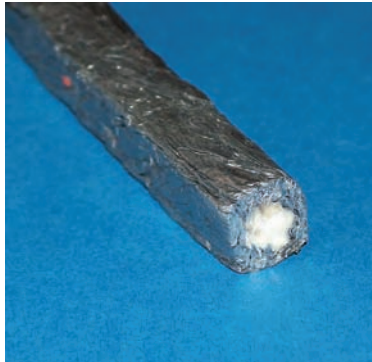
STYLE 8000T-SC

- DESCRIPTION:** GFO® Fiber yarn braided over rubber core.
- CONSTRUCTION:** Interlock braided (1/8" and 3/16" plaited)
- TEMPERATURE:** 550° F 290° C
- PH RANGE:** 0-14
- SHAFT SPEED:** 4000 FPM 20 MPS
- PRESSURE:** 1800 PSI 124 BAR
- USES:** Excellent multi-purpose packing for applications requiring greater packing resiliency.



STYLE 8000T-K

- DESCRIPTION:** GFO® Yarn is braided with Aramid corners.
- CONSTRUCTION:** Interlock braided
- TEMPERATURE:** 500° F 260° C
- PH RANGE:** 2-12
- SHAFT SPEED:** 2000 FPM 10 MPS
- PRESSURE:** 500 PSI 34 BAR
- USES:** Combined attributes of both materials produce a pump packing with abrasion and extrusion resistance.



STYLE 8010/8012

- DESCRIPTION:** Anti-friction lead foil is twisted over a soft fiberglass core. High temp oil and graphite lubricant is added. 8012 has no core.
- CONSTRUCTION:** Lead foil twisted over a soft fiberglass core
- TEMPERATURE:** 450° F 230° C
- PH RANGE:** 0-12
- SHAFT SPEED:** 1000 FPM 5 MPS
- PRESSURE:** 1000 PSI 68 BAR
- USES:** Boiler feed pumps or end rings in conjunction with other packing where packing extrusion exists.



STYLE 8011/8013

- DESCRIPTION:** Anti-friction aluminum foil twisted over a fiberglass core. High temp oil and graphite lubricant is added. 8013 has no core.
- CONSTRUCTION:** Aluminum foil is twisted over a soft fiberglass core
- TEMPERATURE:** 1000° F 540° C
- PH RANGE:** 4-10
- SHAFT SPEED:** 2000 FPM 10 MPS
- PRESSURE:** 1000 PSI 68 BAR
- USES:** For use with Boiler feed pumps, abrasive solutions, and as anti-extrusion rings.

STYLE 8100BIL

DESCRIPTION: A PTFE/graphite fiber is braided into a dense packing made soft with the addition of a lubricant.

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

TEMPERATURE: 550° F 275° C

PH RANGE: 0-14

SHAFT SPEED: 2000 FPM 10 MPS

PRESSURE: 300 PSI

USES: Excellent pump packing with unique fiber traits providing better anti-extrusion properties than similar materials.



STYLE 8100BIL-K

DESCRIPTION: A PTFE/graphite fiber is braided into a dense packing with Aramid corners and an added lubricant.

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

TEMPERATURE: 550° F 275° C

PH RANGE: 0-14

SHAFT SPEED: 2000 FPM 10 MPS

PRESSURE: 300 PSI

USES: Excellent pump packing for applications requiring better abrasion resistance.



STYLE 8200BIL

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

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

TEMPERATURE: 550° F 275° C

PH RANGE: 0-14

SHAFT SPEED: 4000 FPM 20 MPS

PRESSURE: 300 PSI

USES: Excellent economical multi-purpose packing.



STYLE 8500

DESCRIPTION: Carbon yarn coated with PTFE and Graphite

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

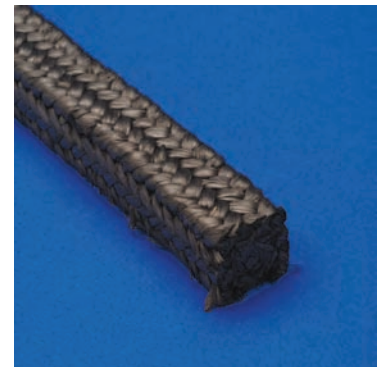
TEMPERATURE: 650 ° F 345° C

PH RANGE: 0-14

SHAFT SPEED: 4000 FPM 20 MPS

PRESSURE: 300 PSI

USES: Premium multi-purpose pump and valve packing for the most aggressive, demanding applications.



STYLE 650 SOOT BLOWER SETS

DESCRIPTION: Molded PTFE Filled Soot Blower Sets, available with Ceramic, Glass, or Carbon filled.

CONSTRUCTION: Molded

TEMPERATURE: 550° F 290° C

PH RANGE: 0-14

SHAFT SPEED: N/A

PRESSURE: N/A

USES: Air operated soot blower systems.



AMERICAN BRAIDING GASKET SHEET

153NA	DESCRIPTION: Synthetic fiber sheet with NBR binder COLOR: Green TEMPERATURE: 750° F PRESSURE: 1200 PSI USES: Water, gasoline, hydrocarbons, oils, mild acids, alkalis, solvents
153WI	DESCRIPTION: Synthetic fiber sheet with NBR binder and wire mesh insert COLOR: Black-graphite finish TEMPERATURE: 750° F PRESSURE: 1475 PSI USES: Fuels, oils, fats, lubricants, internal combustion engines, high pressure steam
503NA	DESCRIPTION: Synthetic fiber sheet with NBR binder COLOR: Blue TEMPERATURE: 750° F PRESSURE: 1400 PSI USES: Water, gasoline, hydrocarbons, oils, mild acids and alkalis, solvents
504	DESCRIPTION: Carbon/Graphite sheet with NBR binder COLOR: Black TEMPERATURE: 900° F PRESSURE: 1450 PSI USES: Steam, water, fuels, solvents, lubricants, high temperatures
505	DESCRIPTION: Synthetic fiber sheet with Neoprene binder COLOR: Black TEMPERATURE: 750° F PRESSURE: 1200 PSI USES: Refrigerants, oils, freon, mild acids
119	DESCRIPTION: All purpose Neoprene polymer sheet – smooth finish COLOR: Black TEMPERATURE: 212° F PRESSURE: 150 PSI USES: Oils, gasoline, sunlight, ozone and oxidizers
154	DESCRIPTION: Red rubber sheet - smooth finish COLOR: Red TEMPERATURE: 212° F PRESSURE: 150 PSI USES: General Purpose rubber sheeting
175	DESCRIPTION: Cloth inserted rubber Sheet - smooth finish COLOR: Black TEMPERATURE: 212° F PRESSURE: 250 PSI USES: Constant stress, low pressure applications such as high load flange gaskets

OTHER PRODUCTS AVAILABLE FROM AMERICAN BRAIDING

American Braiding can custom braid any kind of packing, no matter how sophisticated, unusual, or hard to find. We have designed and manufactured compression packing and other fluid sealing products for over 25 Years. As an added service to our customers, we also provide a variety of other fluid sealing products. A small sample of these products is listed below. If you do not find what you need, please contact our sales department.

BULK PACKING

Easy-Pac NA - Zero leakage shredded PTFE

DIE FORMED RINGS

Die formed rings can be fabricated from any packing style we offer, including graphite tape. Contact our sales department for pricing and availability.

FELT

227 Felt, white wool

FIBERGLASS CLOTH, TAPE & GASKETS

130F Fiberglass cloth - plain
130T Fiberglass cloth - tacky
130W Fiberglass cloth - plain wire inserted
130WT Fiberglass cloth - tacky wire inserted
230WT Manhole gasket - fiberglass wire inserted
231WT Handhole gasket - fiberglass wire insert
129 Tadpole tape fiberglass

FIBERGLASS PRODUCTS ROPE & PACKING

1011F Twisted fiberglass rope
1013F Lattice braided fiberglass rope
1016F Round braided fiberglass rope with twisted core
1017C Square braided ceramic rope
1017F Square braided fiberglass rope
1070F Folded fiberglass cloth grove packing

GRAPHITE PRODUCTS

8001 Graphite tape - adhesive backed
8002 Graphite tape - plain
8003 Graphite tape - textured
8025 Graphite sheet - plain
8026 Graphite sheet - wire inserted

METAL GASKETS

905 Corrugated
910 Corrugated with cord
911 Spiral wound
913 Spiral wound with guide ring
914 Spiral wound Manhole & Handhole
920 Single jacketed
923 Heat exchanger
Stainless steel, Copper, Inconel , Monel

RUBBER SHEET

43 EPDM
44 Hypalon
45 Viton
46 Urethane
47 Butyl
49 Buna-N (Nitrile)
50 Silicone
119W Neoprene food grade (white)
190 Diaphragm sheet
191 Neoprene diaphragm sheet
193 Neoprene diaphragm sheet nylon insert
241O Open cell sponge
443X Closed cell sponge
1060A Tan pure gum

PTFE

2020 Pure PTFE sheet
2025 Expanded PTFE sheet
2030 PTFE Envelope Gaskets without filler
2035 PTFE Envelope Gaskets with filler

VEGETABLE FIBER & CORK

163 Vegetable fiber & cork
165 Vegetable fiber
166 Cork & neoprene
168 Cork & Buna-N
169 Granulated Cork

HYDRAULIC SETS

620 Duck & Rubber Vee ring sets
621 Homogeneous Vee ring sets
622 Nitrile Vee ring sets

O Rings

2100 All materials

SELECTING PROPER PACKING

It is the responsibility of the maintenance personnel to determine the proper packing. However, by answering the following four questions, and using the tables provided, one can narrow down the choices considerably.

I. WHAT IS THE PH VALUE OF THE MEDIA BEING CONVEYED?

Identify the pH of the conveyant. Select a range of packings from Table II (pH Packing Selection Guide).

II. WHAT IS THE TEMPERATURE OF THE MEDIA BEING CONVEYED?

Identify the temperature of the conveyant. Turn to Table III (Packing Specifications) and eliminate packings that do not fall within the desired pH and temperature ranges.

III. WHAT IS THE VELOCITY OF THE ROTATING SHAFT?

Use Table I to convert pump RPM to velocity in feet per minute. Return to Table III (Packing Specifications) and select the remaining packings (left after I & II above) that fit the velocity requirements.

IV. WHAT IS THE PRESSURE ON THE STUFFING BOX?

Determine the pressure on the stuffing box. If not known, use two-thirds of the pump discharge pressure. Again, check pressures against those listed in Table III.

If there is more than one possible choice remaining, read the detailed descriptions of the packings in pages 3-9 of this catalog. If any doubt persists, please contact American Braiding's engineering department.

TABLE I RPM / FPM CONVERSION GUIDE																	
(SHAFT DIAMETER-INCHES)																	
RPM	.50	.75	1.0	1.25	1.5	1.75	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0
100	13	19	26	32	39	45	52	65	78	91	104	131	157	183	209	235	261
300	39	58	78	98	118	137	157	196	235	275	314	393	471	549	628	706	785
500	65	98	131	163	195	229	261	327	392	458	523	654	785	916	1047	1178	1309
1000	131	196	262	327	393	458	524	655	785	916	1047	1309	1570	1832	2094	2356	2618
1500	196	294	392	490	589	687	785	982	1178	1374	1570	1963	2356	2748	3141	3533	3925
1750	229	344	458	573	687	821	916	1145	1374	1604	1833	2291	2749	3207	3665	4114	4582
2000	262	392	524	654	785	916	1057	1309	1571	1833	2094	2618	3141	3663	4187	4710	5233
2500	327	490	655	817	976	1145	1309	1636	1962	2290	2618	3272	3925	4579	5233	5887	
3000	393	588	785	981	1178	1374	1571	1963	2356	2749	3141	3925	4710	5495			
3500	471	707	942	1178	1414	1649	1885	2356	2827	3299	3770	4712	5655				
4000	524	784	1047	1309	1570	1832	2094	2618	3141	3663	4186	5233	6280				
4500	590	882	1178	1472	1717	2061	2356	2945	3533	4121	4710	5890	7070				
5000	655	980	1309	1636	1953	2290	2618	3271	3925	4579	5233	6545	7850				

TABLE II PH PACKING SELECTION GUIDE																	
	ACID														CAUSTIC		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
8100/8100BIL																	
5000T																	
8000T																	
8000G																	
8000																	
344BIL																	
344																	
4000G																	
4000																	
8200BIL																	
5000																	
8010/8012																	
320																	
310																	
5000I																	
3030INA																	
3000T																	
300																	
3000T-K																	
8000T-K																	
895																	
8011/8013																	
3000G																	
345																	
921G																	
921																	

Table III

Packing Specifications

	SERVICE CONDITIONS				MOTION			ACID		ALKALI		GASES			WATER			OILS		SOLVENT		
	TEMPERATURE	PRESSURE (PSI) STUFFING BOX	SHAFT SPEED (FPM)	PH RANGE	ROTARY	RECIPROCATING	VALVE STEM	CORROSIVE	MILD	CORROSIVE	MILD	AIR/DRY INDUSTRIAL	BR/CL	AMMONIA	OXYGEN	STEAM	WATER	SALT WATER	PETROLEUM	SYNTHETIC	ALIPHATIC	AROMATIC
ACRYLIC																						
LUBRICATED (3000G)	450	300	1000	4-10	x	x	x		x		x	x		x		x	x	x	x	x		
PTFE COATED (3000N)	500	500	2200	2-12	x	x	x		x		x	x		x		x	x	x	x	x	x	x
PTFE COATED & LUBE (3000T)	500	500	2200	2-12	x	x	x		x		x	x		x		x	x	x	x	x	x	x
ARAMID																						
PTFE COATED (300)	500	500	2200	2-12	x	x	x		x		x	x		x		x	x	x	x	x	x	x
CARBON/GRAPHITE																						
CARBON/ PTFE (4000) ³	550	500	2000	2	x	x	x		x		x	x		x		x	x	x	x	x	x	x
CARBON/GRAPHITE (4000G)	750	500	2000	2	x	x	x		x		x	x		x		x	x	x	x	x	x	x
GRAPHITE (5000)	2000	500	4000	2	x	x	x	x	x	x	x	x		x	1	x	x	x	x	x	x	x
GRAPHITE (5000C)	2000	500	4000	2	x	x	x	x	x	x	x	x		x	1	x	x	x	x	x	x	x
GRAPHITE (5000-OCC)	5000	500	4000	2	x	x	x	x	x	x	x	x		x	1	x	x	x	x	x	x	x
GRAPHITE W PTFE (5000T)	550	500	4000	2	x	x	x	x	x	x	x	x		x	1	x	x	x	x	x	x	x
GRAPHITE (8000G)	1200	500	4000	2	x	x	x	x	x	x	x	x		x		x	x	x	x	x	x	x
GRAPHITE (8000)	3500	2500	4000	2			x	x	x	x	x	x		x	1	x	x	x	x	x	x	x
COATED CARBON (8500)	650	4000	4000	2	x	x	x		x		x	x		x		x	x	x	x	x	x	x
METALS																						
ALUMINUM (8011/8013)	1000	1000	2000	4-10	x	x	x		x		x	x				x	x	x	x	x	x	x
COPPER (895)	1000	1000	1000	3-10																		
LEAD (8010/8012)	450	1000	1000	0-12	x	x	x		x		x	x				x	x	x	x	x	x	x
VALVE STEM																						
GLASS (3030INA)	1200	3000	NA	2-11			x	x	x	x	x	x				x	x	x	x	x	x	x
GRAPHITE (5000I)	1500	4500	NA	2-14			x	x	x	x	x	x		x	1	x	x	x	x	x	x	x
PHENOLIC																						
KYNOL (320)	500	500	1500	1-13	x	x	x		x		x	x				x	x	x	x	x	x	x
PTFE																						
DRY (344 & 344T)	500	300	1000	2			x	x	x	x	x	x	x	x	1	x	x	x	x	x	x	x
LUBRICATED (344BIL)	500	300	1800	2	x	x		x	x	x	x	x	x			x	x	x	x	x	x	x
GRAPHITE & LUBE (8000T)	550	300	2000	2	x	x		x	x	x	x	x	x			x	x	x	x	x	x	x
GRAPHITED & LUBE (8100BIL)	550	300	2000	2	x	x		x	x	x	x	x	x			x	x	x	x	x	x	x
GRAPHITE & LUBE (8200BIL)	550	300	2000	2	x	x		x	x	x	x	x	x			x	x	x	x	x	x	x
VEGETABLE FIBER																						
LUBRICATED (921)	150	150	1000	5-9	x	x	x									x	x					
PTFE COATED (345)	200	300	1200	5-11	x	x	x									x	x	x	x			
GRAPHITED (921G)	150	150	1000	5-9	x	x	x									x	x					
WITH ARAMID CORNERS																						
ACRYLIC (3000T-K)	500	500	2200	2-12	x	x	x		x		x	x		x		x	x	x	x	x	x	x
GRAPHITE&PTFE (8000T-K)	500	500	2000	2-12	x	x	x		x		x	x		x		x	x	x	x	x	x	x
GRAPHITE&PTFE (8100BIL-K)	500	500	2000	2-12	x	x	x		x		x	x		x		x	x	x	x	x	x	x

1. Consult ABM for proper oxygen certifiable style.
2. 0-14 except strong oxidizers.
3. Temperature, pressure, shaft speed performance are heavily dependent upon coating systems.
4. Primarily used as bushings, pushers or for bearing support.

The above listed recommendations are for reference only. Consult ABM for particular applications.



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