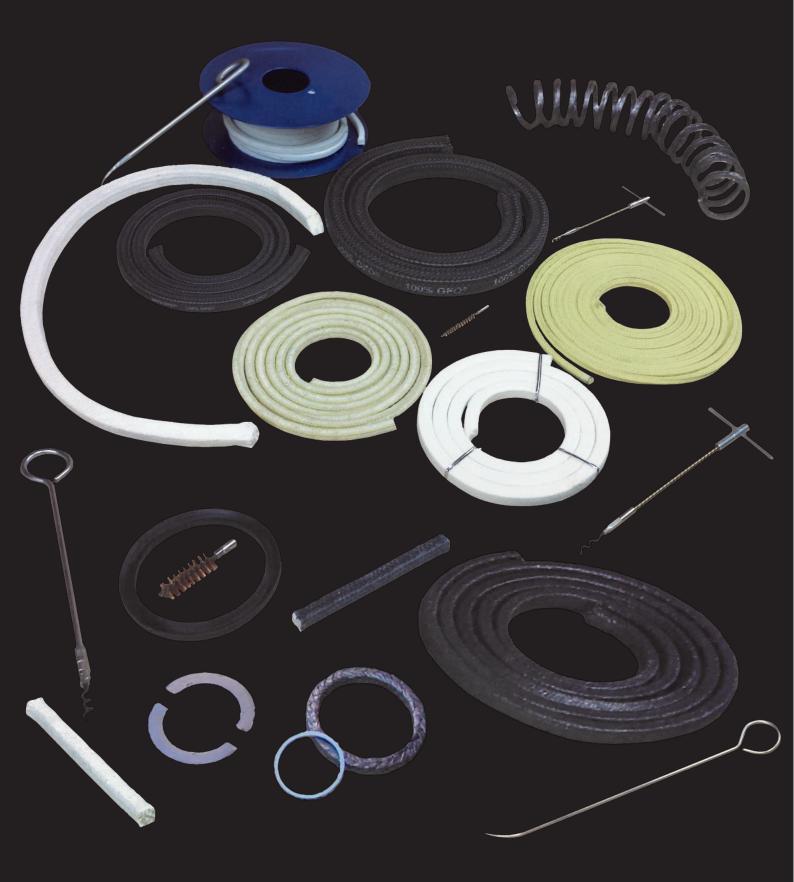


Marigold Pump & Valve Packings





About AG

Founded in 1965 and 100% Australian owned, Associated Gaskets has a long standing reputation in Australian industry for providing high quality products and exemplary service. As our range of products has continued to expand over the years, our focus remains on providing the very best service possible.

Today, AG offers a truly comprehensive range of gaskets, seals, thermal and electrical insulation, adhesives and sealants, technical sprays, liquids and industrial tapes. We couple this enormous range with extensive fabrication facilities and large stock holdings spread amongst our 6 locations; Brisbane, Melbourne, Perth, Wollongong, Newcastle and our Sydney (head office).

If you would like any more information on any of the packing listed in this guide, or any other product in AG's versatile range, please don't hesitate to contact your local AG branch.

Industries Served

- Agricultural
- Automotive
- Chemical & Petro-Chemical
- Construction
- Defence & Aerospace
- Electric Motor Rewinders & OEMs
- Electronics
- Engineering
- Food & Beverage
- Manufacturing
- Marine & Shipbuilding
- Metallurgical
- Mining
- Oil & Gas
- Paper, Pulp & Board
- Pharmaceutical
- Power Generation & Transmission
- Renewable Energy
- Switchboard Manufacture & Repair
- Tradespeople
- Transformer Manufacture & Repair
- Transport
- Water & Waste
 - & Many, Many More...





Services Offered

- 3D Modelling & Drawing
- Die Cutting
- Extrusions
- Individualised Documentation
- Inventory Management
- Kiss Cutting
- Kits & Custom Packaging
- Laser Cutting
- Machining
- Moulding
- Product Coding & Traceability
- Rapid-Prototyping
- Sample Reproduction
- Sewing
- Shut Down Services
- Slitting
- Thicknessing & Many More...

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Style	Description	Page					
300 300SA 310 320	Aramid filament impregnated with PTFE suspensoid and lubricant Spun aramid impregnated with PTFE suspensoid and lubricant Meta-aramid impregnated with PTFE suspensoid and lubricant Kynol impregnated with PTFE suspensoid and lubricant						
344 344BIL 344BIL-SC 344FDA	PTFE filament impregnated with PTFE suspensoid PTFE filament impregnated with PTFE suspensoid and break-in lube PTFE filament impregnated with PTFE suspensoid, break-in lube + rubber core FDA compliant PTFE filament packing	4					
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3030INA 4000 4000G 5000	Inconel® inserted fibreglass with flexible core and proprietary blocking agent Carbon fibre impregnated with PTFE suspensoid Carbon fibre impregnated with proprietary blocking agent and lubricant Expanded flexible graphite	8					
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8000T-WO 8010 / 8012 8011 / 8013 8100BIL	Proprietary blend of self lubricating & abrasion resistant yarns Lead foil with oil and graphite over fibreglass core (8012 has no core) Aluminium foil with oil and graphite over fibreglass core (8013 has no core) PTFE/Graphite fibre impregnated with lubricant	12					
8100BIL-K 8200BIL 8500 9907	PTFE / graphite impregnated with lubricant and aramid corner reinforcement Economical PTFE /graphite blend with lubricant Carbon yarn with PTFE / graphite coating Fibreglass with graphite and proprietary lubricant and corrosion inhibitors	13					
9944	Fibreglass with PTFE and specialised lubricant Packing Selection Guide & RPM / MPS Conversion Table	14					
	pH Packing Selection Guide & Packing Selection Table	15 & 16					
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Description: Aramid filament is impregnated with PTFE and an inert lubricant then braided into a dense, resilient packing.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

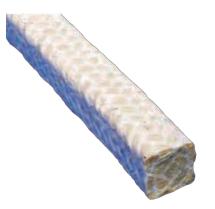
Temperature: 260°C (500°F) pH Range: 2-12

Shaft Speed: 12 MPS (2500 FPM) Pressure: 34 BAR (500 PSI)

Pump and valve packing for moderate uses. The high tensile

Applications: strength of Aramid makes this packing ideally suited for slurry

and abrasive service.



Marigold 300SA

Description: Spun aramid fibre is impregnated with PTFE suspensoid and a non-silicone break-in lubricant.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 2 - 12

Shaft Speed: 12 MPS (2500 FPM) Pressure: 34 BAR (500 PSI)

Strong enough to handle the toughest abrasive applications,

Applications: this packing is an economical and more forgiving alternative to

many aramid filament grades.



Marigold 310

Description: White meta-aramid fibre is impregnated with PTFE suspensoid and a break-in lubricant.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 1 - 12

Pressure: 20 BAR (300 PSI) Shaft Speed: 10 MPS (2000 FPM)

Pliable and abrasion resistant, this packing stands up to

Applications: chemical attack and break down. Suitable for agitators, mixers

and stock pumps (amongst other applications).



Marigold 320

Kynol, a type of phenolic fibre, is impregnated with PTFE

Description: suspensoid and a special, non-contaminating break-in

lubricant is added.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 1 - 13

Shaft Speed: 10 MPS (2000 FPM) Pressure: 34 BAR (500 PSI)

Moderate pump and valve services. Not suitable for sulphuric Applications:

acids or strong bases.





PTFE fibre impregnated with PTFE suspensoid. Braided into a

Description: dense packing with a low coefficient of friction that reduces

the need for adjustment after installation.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: N/A Pressure: 20 BAR (300 PSI)

Applications: Extreme chemical valve service



Marigold 344BIL

Description: Pure PTFE fibre is impregnated with PTFE suspensoid and an inert break-in lubricant.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: 7 MPS (1500 FPM) Pressure: 20 BAR (300 PSI)

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



Marigold 344BIL-SC

Description: Pure PTFE fibre is impregnated with PTFE suspensoid and an inert break-in lubricant with a rubber core.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: 7 MPS (1500 FPM) Pressure: 20 BAR (300 PSI)

Same as 344BIL but designed for worn shaft applications Applications:

requiring greater compression recovery from shaft deflection.



Marigold 344FDA

Description: Pure interlock braided PTFE fibre meeting FDA standards.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: 7 MPS (1500 FPM) Pressure: 20 BAR (300 PSI)

Applications requiring an FDA grade packing for

Applications: pharmaceutical or food contact. Complies with FDA and USDA

Title 21 Food and Drug usage.





Marigold 344-SC

Description: Same as Marigold 344 but with a silicone rubber core.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0-14

Pressure: 20 BAR (300 PSI) Shaft Speed: 6 MPS (1200 FPM)

Same as Marigold 344 but designed for worn shaft

Applications: applications requiring greater compression recovery from

shaft deflection.



Marigold 344T

Description: Pure PTFE fibre is impregnated with PTFE suspensoid and an inert break-in lube. Also available without lubricant.

Construction: Hollow braided and calendered to shape

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: N/A Pressure: 20 BAR (300 PSI)

Applications: A flexible and conformable gasket tape for glass lined and other forms of chemical equipment.



Marigold 345

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

Construction: Plait Braided

Temperature: 121°C (250°F) pH Range: 5-9

Shaft Speed: 6 MPS (1200 FPM) Pressure: 13 BAR (200 PSI)

Used in marine applications (such as stern tubes and rudder Applications:

posts) that require a conformable, highly economical packing.



Marigold 359

Description: Unique packing designed to handle the specific needs of the chemical transportation industry.

Braided PTFE jacket over polypropylene fibres and PTFE Construction:

wrapped elastomeric core.

Temperature: 121°C (250°F) pH Range: 0 - 14

Shaft Speed: N/A Pressure: 0.7 BAR (10 PSI)

Used to seal tank covers, hatches and lids through repeated

Applications: cycles against aggressive chemicals. Meets US Coat Guard

requirements for lid sealing.





Description: FDA compliant PTFE hybrid yarn with high speed lubricant.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: 15 MPS (3000 FPM) Pressure: 20 BAR (300 PSI)

Utilising the latest PTFE hybrid yarn technology, this packing

Applications: exhibits ultra high thermal conductivity while maintaining FDA

CFR 177.1550 compliance.



Marigold 895

Description: Soft, annealed copper wire is plait braided into a dense yet highly flexible packing.

Construction: Plait Braided

Temperature: 815°C (1500°F) pH Range: 4 - 10

Shaft Speed: 5 MPS (1000 FPM) Pressure: 69 BAR (1000 PSI)

Applications: Used for anti-extrusion rings.



Marigold 921

Description: Quality flax and ramie fibres are impregnated with tallow and wax lubricants.

Construction: Plait Braided

Temperature: 104°C (220°F) pH Range: 5-9

Shaft Speed: 6 MPS (1200 FPM) Pressure: 10 BAR (150 PSI)

Applications: Cold water, brine and marine applications such as stern tubes and rudder posts.



Marigold 921G

Description: Same as Marigold 921 but with a surface lubricated with graphite to reduce friction.

Construction: Plait Braided

Temperature: 104°C (220°F) pH Range: 5-9

Shaft Speed: 6 MPS (2000 FPM) Pressure: 10 BAR (150 PSI)

Heavy duty hydraulic packing for marine applications involving

Applications: cold water or oil. Also available with waterproof coating as

921WPH or with Moly as 921M.





Marigold 3000G

Description: A special acrylic yarn blend is impregnated with a high temp lubricant and finished with particulate graphite coating.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 4 - 10

Shaft Speed: 7 MPS (1500 FPM) Pressure: 20 BAR (300 PSI)

Applications: An economical, general service graphite packing for moderate pump and valve service.



Marigold 3000N

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

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0-12

Shaft Speed: 11 MPS (2200 FPM) Pressure: 34 BAR (500 PSI)

A tough, economical packing for pumps, valves and static

Applications: seals. Designed for use where contamination from break-in

lubricants is not permitted.



Marigold 3000T

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

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 260°C (500°F) pH Range: 0 - 12

Shaft Speed: 12 MPS (2500 FPM) Pressure: 34 BAR (500 PSI)

Premium grade, general purpose pump and valve packing.

Applications: Thoroughly impregnated with PTFE and proprietary break-in

lubricants.



Marigold 3000T-K

Description: Acrylic yarn impregnated with PTFE suspensoid, aramid corners and an inert lubricant for ease of start-up.

Construction: Interlock Braided

Temperature: 260°C (500°F) pH Range: 2 - 12

Shaft Speed: 11 MPS (2200 FPM) Pressure: 34 BAR (500 PSI)

Non-contaminating packing for pumps requiring the

Applications: high-speed traits of acrylic yarn and the abrasive resistance

of aramid.





Marigold 3030INA

Description: A high temperature valve stem and expansion joints packing.

Inconel® inserted, heat stabilised fibreglass yarn is braided

Construction: over a homogenous graphite core. Corrosion inhibitors are

added with a high temperature graphite finish.

Temperature: 649°C Steam / 455°C Air pH Range: 2-13

Shaft Speed: N/A Pressure: 207 BAR (3000 PSI)

Applications: General service, high temp and pressure packing used with steam, gases and in hydrocarbon applications.



Marigold 4000

Description: Non-staining carbon yarns are impregnated with PTFE as a blocking agent and a high temperature break in lube.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 315°C (600°F) pH Range: 0 - 14

Pressure: 248 BAR Valves 34 BAR Pumps Shaft Speed: 15 MPS (3000 FPM)

Pump and valve packing for applications where a high quality,

Applications: non-staining, non-contaminating packing is required. Ideal for

the pulp and paper industry.



Marigold 4000G

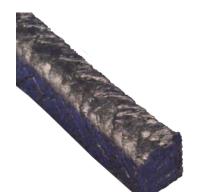
Description: Carbon yarns are impregnated with a blocking agent and a high speed break-in lubricant.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 300 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

Applications: High temperature pump and valve packing for use with solvents, petrochemicals, mild acids and alkalis.



Marigold 5000

Description: Braided from pure expanded flexible graphite.

Construction: Plait Braided

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 207 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

A virtually leak free, flexible graphite packing with low friction,

Applications: excellent heat transfer and chemical resistance. Also available

in lattice braid as 5000LB.





Marigold 5000C / Marigold 5000CC

Same applications as Marigold 5000 but 5000C has corners made of carbon yarn and 5000CC has a carbon core.

Construction: Plait Braided

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 207 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

Applications: Same as Marigold 5000 with higher extrusion resistance.



Marigold 50001

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

Construction: Plait Braided

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Shaft Speed: N/A Pressure: 310 BAR (4500 PSI)

Applications: Used in marine applications (such as stern tubes and rudder posts) that require a conformable, highly economical packing.



Marigold 5000IJ

Description: Ultra low emission Inconel® jacketed flexible graphite.

Construction: Plait Braided

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Shaft Speed: N/A Pressure: 448 BAR (6500 PSI)

An ultra low leakage flexible graphite packing designed for use

Applications: with LDAR programs where EPA compliance and low emission

certification is required.



Marigold 5000-OCC

Description: Braided from pure expanded flexible graphite with outside carbon yarn corners.

Construction: Interlock Braided

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 344 BAR Valves 34 BAR Pumps Shaft Speed: 24 MPS (4800 FPM)

Extreme pump and valve applications requiring superior

extrusion and abrasion resistance.





Marigold 5000T

Flexible graphite yarn impregnated with PTFE and an inert

Description: lubricant. High density packing with excellent anti-extrusion

characteristics.

Construction: Plait Braided

Temperature: 288°C (550°F) pH Range: 0 - 14

Shaft Speed: 20 MPS (4000 FPM) Pressure: 34 BAR (500 PSI)

Applications: Excellent multi-purpose packing for pumps and valves, with

good chemical resistance and heat dissipation properties.



Marigold 8000

Description: Pure nuclear grade graphite filament is braided and treated with a special graphite coating to eliminate fraying.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 276 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

For extreme valve service, can be used effectively as a wiper

Applications: ring or cushioning ring. Testing and nuclear certification

available upon request.



Marigold 8000G

Pure graphite yarns are impregnated with a proprietary

blocking agent. High quality graphite lubricant is added.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 172 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

Applications: Pump and valve packing for extreme temperatures or

aggressive chemical applications with high shaft speeds.



Marigold 8000LC

Description: Industrial grade graphite filament treated with a special graphite coating to eliminate fraying.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 276 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

Economical graphite pump and valve packing for extreme

temperatures or aggressive chemical applications.





Marigold 8000T

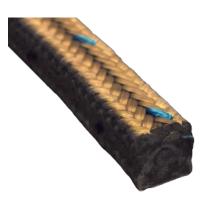
Description: W.L. Gore's patented GFO® fibre yarn is braided into a dense but conformable packing. Made from 100% GFO® Fibre.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 288°C (550°F) pH Range: 0 - 14

Pressure: 138 BAR Valves 20 BAR Pumps Shaft Speed: 21 MPS (4300 FPM)

Applications: Multi-purpose packing for acids, alkalis, solvents and steam.



Marigold 8000TLB

Description: High quality graphite and PTFE with a proprietary, high-speed break-in lubricant.

Construction: Interlock Braided

Temperature: 288°C (550°F) pH Range: 0 - 14

Shaft Speed: 21 MPS (4300 FPM) Pressure: 20 BAR (300 PSI)

Used in valves, centrifugal pumps, high speed rotary and

Applications: reciprocating pumps that require high extrusion resistance,

chemical resistance and heat dissipation properties.



Marigold 8000T-K

Description: GFO® fibre yarn is braided with reinforcing aramid corners.

Construction: Interlock Braided

Temperature: 260°C (500°F) pH Range: 2 - 12

Shaft Speed: 12 MPS (2500 FPM) Pressure: 34 BAR (500 PSI)

Combined the attributes of both materials produces a

Applications: self-lubricating pump packing with excellent abrasion and

extrusion resistance.



Marigold 8000T-SC

Description: GFO® fibre yarn braided over a silicone rubber core. Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 288°C (550°F) pH Range: 0 - 14

Pressure: 138 BAR Valves 20 BAR Pumps Shaft Speed: 21 MPS (4300 FPM)

Applications: Excellent multipurpose packing for applications requiring

greater compression recovery from shaft deflection.





Marigold 8000T-WO

Proprietary, unique combination of self lubricating and

Description: abrasion resistant yarns with good resistance to high shaft

speed.

Construction: Interlock Braided

Temperature: 260°C (500°F) pH Range: 0 - 14

Shaft Speed: 15 MPS (3000 FPM) Pressure: 124 BAR (1800 PSI)

Applications: Centrifugal, Rotary and Reciprocating Pumps as well as Valves and other static applications.



Marigold 8010 / Marigold 8012

Anti-friction lead foil is twisted over a soft fibreglass core.

Description: High temp oil and graphite lubricant is added.

8012 has no core.

Construction: Lead foil twisted over soft core (no core for 8012)

Temperature: 232°C (450°F) pH Range: 4 - 10

Shaft Speed: 18 MPS (3600 FPM) Pressure: 69 BAR (1000 PSI)

Applications: Boiler feed pumps or end rings in conjunction with other packing where packing extrusion is evident.



Marigold 8011 / Marigold 8013

Anti-friction aluminium foil is twisted over a fibreglass core.

Description: High temp. oil and graphite lubricant added.

8013 has no core.

Construction: Aluminium foil twisted over soft core (no core for 8013)

Temperature: 538°C (1000°F) pH Range: 4 - 10

Shaft Speed: 10 MPS (2000 FPM) Pressure: 69 BAR (1000 PSI)

Applications: For use with boiler feed pumps, abrasive solutions and as anti-extrusion rings.



Marigold 8100BIL

Description: PTFE/Graphite fibre is braided then thoroughly impregnated with a proprietary high speed lubricant.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 288°C (550°F) pH Range: 0 - 14

Shaft Speed: 24 MPS (4900 FPM) Pressure: 20 BAR (300 PSI)

Excellent pump packing with unique fibre traits that provide

Applications: better abrasion resistance and anti-extrusion properties than

similar materials.





Marigold 8100BIL-K

PTFE/Graphite fibre is braided with reinforcing aramid corners and an additional lubricant.

Construction: Interlock Braided

Temperature: 260°C (500°F) pH Range: 2-12

Shaft Speed: 12 MPS (2500 FPM) Pressure: 34 BAR (500 PSI)

Excellent pump packing for applications requiring greater

Applications: abrasion and extrusion resistance than standard PTFE/

graphite packings.



Marigold 8200BIL

Description: PTFE/Graphite fibre is braided into a high density packing.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 288°C (550°F) pH Range: 0-14

Pressure: 138 BAR Valves 20 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

An economical, multi-purpose PTFE/Graphite packing for

Applications: applications that require good thermal conductivity and

chemical resistance.



Marigold 8500

Description: Carbon yarn coated with PTFE and graphite.

Construction: Interlock Braided (3.2mm and 4.8mm are plaited)

Temperature: 649°C Steam / 455°C Air pH Range: 0 - 14

Pressure: 310 BAR Valves 34 BAR Pumps Shaft Speed: 20 MPS (4000 FPM)

Applications: Premium multi-purpose pump and valve packing for the most

aggressive, demanding applications.



Marigold 9907

Volumised and twisted electrical grade fibreglass is

Description: impregnated with a special blend of graphite, proprietary

break-in lubricant and corrosion inhibitors.

Construction: Plait Braided

Temperature: 500°C (932°F) pH Range: 2 - 12

Shaft Speed: 1 MPS Valves Pressure: 200 BAR Valves 20 BAR Pumps

10 MPS Centrifugal Pumps

Durable packing versatile enough to handle many centrifugal, Applications:

rotary and reciprocating pump and valve applications.





Description: Electrical grade fibreglass impregnated with a specialised blend of PTFE and a proprietary, inert lubricant.

Construction: Interlock Braided

Temperature: 280°C (536°F) pH Range: 2 - 12

Shaft Speed: 10 MPS Rotating Pumps Pressure: 20 BAR Rotating 40 BAR Recip. 2 MPS Reciprocating Pumps

Applications: General service packing which provides extremely low friction in centrifugal, rotary and reciprocating pump applications.

Packing Selection Guide

Though not designed to be used as the sole guide for packing selection, the following four questions can usually be used to significantly narrow the packing choices available to just a few likely options.

1. What is the pH value of the media?

Identify the pH value of the media. ID suitable packing in the pH Packing Selection Guide (p. 15)

2. What is the application temperature?

Identify the temperature of the application media. Refer to the Packing Selection Table on page 16.

3. What is the velocity of the rotating shaft?

Use the RPM / MPS Conversion Table (below) to convert pump RPM to velocity in metres per second. Return to the Packing Selection Table and identify the packings that remain (after steps 1 & 2) that meet the velocity requirements.

4. What is the pressure of the stuffing box?

Determine the pressure of the stuffing box. If not known, use two-thirds of the pump discharge pressure. Again, check pressures against those listed in the Packing Selection Table (p. 16).

If there is more than one possible choice remaining, consult the individual grade descriptions in this brochure. If more information is required please contact your local AG branch.

Re	evolu	tions	s per	Min	ute (RPM)	/ M	etres	s per	Sec	ond	MPS	(i) Co	nver	sion	Tabl	e
RPM								Shaft D	iamete	r in mm	1						
KPIVI	12.7	19	25.4	31.8	38.1	44.5	50.8	63.5	76.2	88.9	102	127	152	178	203	229	254
100	0.07	0.1	0.13	0.16	0.2	0.23	0.26	0.33	0.4	0.46	0.53	0.66	0.8	0.93	1.06	1.2	1.3
300	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1	1.2	1.4	1.6	2	2.4	2.8	3.2	3.59	3.99
500	0.33	0.5	0.66	0.83	1	1.16	1.33	1.66	2	2.33	2.67	3.32	3.98	4.66	5.31	5.99	6.65
1000	0.66	1	1.33	1.66	1.99	2.33	2.66	3.32	3.99	4.65	5.34	6.65	7.95	9.3	10.6	12	13.3
1500	1	1.5	2	2.5	2.99	3.49	3.99	4.98	5.98	6.98	8	9.97	11.9	13.9	15.9	18	19.9
1750	1.16	1.75	2.33	2.91	3.49	4.08	4.65	5.8	6.98	8.14	9.34	11.6	13.9	16.3	18.6	21	23.3
2000	1.33	1.99	2.66	3.33	3.99	4.66	5.32	6.65	7.98	9.3	10.7	13.3	15.9	18.6	21.2	24	26.6
2500	1.66	2.49	3.32	4.16	4.98	5.82	6.65	8.31	9.97	11.6	13.3	16.6	19.9	23.3	26.6	30	33.2
3000	2	2.99	3.99	4.99	5.98	6.99	7.98	9.97	11.9	13.9	16	19.9	23.9	27.9	31.9	36	39.9
3500	2.33	3.48	4.65	5.82	6.98	8.15	9.3	11.6	13.9	16.3	18.7	23.3	27.8	32.6	37.2	41.9	46.5
4000	2.66	3.98	5.32	6.66	7.98	9.32	10.6	13.3	15.9	18.6	21.4	26.6	31.8	37.3	42.5	47.9	53.2
4500	3	4.47	5.98	7.49	8.97	10.5	11.9	14.9	17.9	20.9	24	29.9	35.8	41.9	47.8	53.9	59.8
5000	3.32	4.97	6.65	8.32	9.97	11.6	13.3	16.6	19.9	23.3	26.7	33.2	39.8	46.6	53.1	59.9	66.5



pH Packing Selection Guide

	Acidic Causti													ustic	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
344 / 344FDA / 344SC															
344BIL / 344BIL-SC / 344T															
359															
360															
4000 / 4000G															
5000 / 5000C															
5000CC / 5000-0CC															
5000T															
8000G															
8000T / 8000T-SC															
8000T-WO / 8000TLB															
8000 / 8000LC															
8100BIL															
8200BIL															
8500															
5000I / 5000IJ															
310															
320															
3030INA															
300 / 300SA															
3000T / 3000N															
3000T-K															
8000T-K / 8100BIL-K															
9907 / 9944															
895															
3000G															
8011 / 8013															
8010 / 8012															
345															
921															
921g															

This information provided in this book is of a general nature and is designed for reference purposes only.

Please consult AG to discuss suitability for any individual applications.

	S	M	loti	on	Ac	id	Alk	cali	Gases Water						r	Oi	ls	Solv	ents			
Marigold Packing Selection Table	Max Temp. (°C)	Pressure (BAR)	Shaft Speed (MPS)	pH Range	Rotary	Reciprocating	Valve Stem	Corrosive	Mild	Corrosive	Mild	Air/Dry Industrial	Bromine monochloride	Amonia	Oxygen	Steam	Water	Salt Water	Petroleum	Synthetic	Aliphatic	Aromatic
	~	ш.	U)	6,000	cryl		-	0	~	U	~	et.	ш	et.		U)	>	U)		01	Q.	d.
Lubricated (3000G)	260	20.7	7.6	4-10	∠ /	1	1		1		1	1		1		1	1	1	1	1		
PTFE Coated (3000N)	260	34.5	11.2	0-12	1	1	1	2	1	2	1	1		1	1	1	1	1	1	1	1	1
PTFE Coated & Lube (3000T)	260	34.5	12.7	0-12	1	1	1		1		1	1		1	_	1	1	1	1	1	1	1
	200	7117	1000	amids /	Me	ta	Arai	mid	s													
PTFE Coated (300/300SA)	260	34.5	12.7	2-12	1	1	1		1		1	1		1		1	1	1	1	1	1	1
PTFE Coated (310)	260	20.7	10.1	1-12	1	1	1		1		1	1		1	T	1	1	1	1	1	1	1
	200	2011		Carbons	/ 6	irai	phit	es	Derivation of the second		2/6	16		260		0.1	(6)	-60				
Carbon/PTFE & Lube (4000)	315	34.53	15.2	1	1	1	1		1		1	1		1	\Box	1	1	1	1	1	1	1
Carbon/Graphite (4000G)	455*	34.53	20.3	1	1	1	1		1		1	1		1		1	1	1	1	1	1	1
Graphite (5000)	455*	34.53	20.3	1	1	1	1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
Graphite (5000C/5000CC)	455*	34.53	20.3	1	1	1	1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
Graphite (5000-OCC)	455*	34.53	24.4	1	1	1	1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
Graphite w/ PTFE (5000T)	288	34.5	20.3	1	1	1	1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
Graphite w/ PTFE (8000TLB)	288	20.7	21.8	1	1	1	1	1	1	1	1	1	1	1	T	1	1	1	1	1	1	1
Graphite (8000G)	455*	34.53	20.3	1	1	1	1	1	1	1	1	1		1		1	1	1	1	1	1	1
Graphite (8000/8000LC)	455*	34.53	20.3	1			1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
Coated Carbon (8500)	455*	34.53	20.3	1	1	1	1		1	Г	1	1		1	T	1	1	1	1	1	1	1
				٨	/ eta	als																
Aluminium (8011/8013)	538	69	10.1	4-10	1	1	1		1		1	1				1	1	1	1	1	1	1
Copper (895)	815	69	5.1	4-10	N/A	N/A	N/A			ė.	8 6	p) (6	6									
Lead (8010/8012)	232	69	18.3	4-10	1	1	1		1		1	1				1	1	1	1	1	1	1
				Val	ve S	Ste	m															
Glass (3030INA)	455*	207	N/A	2-13	N/A	N/A	1	1	1	1	1	1				1	1	1	1	1	1	1
Graphite (5000I)	455*	310	N/A	0-14			1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
Jacketed Graphite (5000IJ)	455*	448	N/A	0-14			1	1	1	1	1	1		1	2	1	1	1	1	1	1	1
= = = = = = = = = = = = = = = = = = =			F	henolic	/ S	pec	ciali	sed														
Kynol (320)	260	34.5	10.1	1-13	1	1	1		1		1	1			_	1	1	1	1	1	1	1
Proprietary (8000T-WO)	260	124.1	15.2	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
Fibreglass (9907)	500	20 ³	1 ³	2-12	1	1	1		1		1	1	1			1	1	1	1	1	1	1
Fibreglass (9944)	280	20 ³	2 ³	2-12	1	1			1		1	1	1			1	1	1	1	1	1	1
					PTF	E																5000
Dry (344)	260	20.7	N/A	1			1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1
FDA Compliant (344FDA)	260	20.7	7.6	1			1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1
Lubricated (344BIL)	260	20.7	7.6	1	1	1		1	1	1	1	1	1	1	_	1	1	1	1	1	1	1
PTFE Hybrid & Lube (360)	260	20.7	15.2	1	1	1	200		1	1	1	1	1	1	_	1	1	1	1	1	1	1
Graphite & Lube (8000T)	288	20.73	21.8	1	1	1		1	1	1	1	1	1	1	_	1	1	1	1	1	1	1
Graphite & Lube (8100BIL)	288	20.7	24.9	1	1	800	N/A	1	1	1	1	1	1	1	_	1	1	1	1	1	1	1
Graphite & Lube (8200BIL)	288	20.73	20.3	1	✓	1	V	1	1	1	1	1	1	✓		1	1	1	1	1	1	1
2222			(2)	Vege	277	57.0	ibre	S .			_			-	,	-	200	201	520			_
PTFE Coated (345)	121	13.8	6.1	5-9	1	1	1		. 0		-1 12	2 0			_		1	1	1	1		
Lubricated (921/921G)	104	10	6.1	5-9	1	1	1					S. 16					1	1				
	T			amid Co		T	einfe	orce					- 1		_							
Acrylic (3000T-K)	260	34.5	11.2	2-12	1	1	1		1		1	1		1	4	1	1	1	1	1	1	1
Graphite & PTFE (8000T-K)	260	34.5	12.7	2-12	1	1	1	9	1		1	1		1		1	1	1	1	1	1	1
Graphite & PTFE (8100BIL-K)	260	34.5	12.7	2-12	1	1	1		1		1	1		1		1	1	1	1	1	1	1

^{*} Higher in specific environments (e.g. Steam, Non-Oxidising)

² Please consult AG for appropriate oxygen certified grade.

¹ 0-14 except for strong oxidisers

³ Higher in certain applications (e.g. Valves or Specific Pumps)



Packing Accessories & Fabrication Options



Packing Extractors

Encompassing a variety of different types, sizes and styles; AG is pleased to offer a comprehensive range of packing extractor tools that allow you to remove old, used packing remnants easily and safely.

Including everything from rigid and flexible packing screws to brushes and formed hooks, our full range of packing extractor tools are available from AG as individual items or in sets, and with our large range of stock, you can be sure that AG can supply the extractor you need for the job, when you need it.



Packing Cutters

Designed to ensure the perfect skive (45°) or butt join (90°) angled cut, AG's packing cutters make the installation process easy and reduce wastage.

Using one of these tools is as simple as aligning the packing with the fence and rotating to reach alignment with the desired angle. Designed for maximum versatility, our packing cutters can be used for cutting the vast majority of our Marigold Packings (excl. 300, 300SA, 310 & 895) as well as felts and rubber sealing strips and tapes.



Marigold Soot Blower Sets

Utilised extensively within the Paper & Pulp and Power Generation industries where Recovery Boilers are in use, Marigold Soot Blower Packing Sets are fully moulded items produced to match your applications exact requirements.

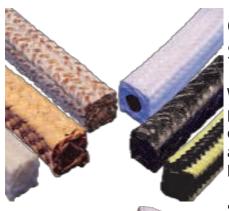
Available in either Ceramic Filled, Glass Filled or Carbon Filled PTFE; Marigold Soot Blower Sets exhibit very low friction rates, good corrosion resistance and heat dissipation.



Preformed Packing Rings

All of AG's wide variety of Marigold Gland Packings can also be supplied in preformed packing rings. Manufactured in-house by our experienced team, these rings are produced to match all standard and custom shaft sizes and can greatly reduce labour costs and material wastage.

For more information on this option, or to arrange a quote for a particular size of packing ring, please contact your local AG branch.



Custom Styles, Sizes and Standards of Packing for Specialised Applications

With decades of experience in providing the correct compression packing for an application, AG understands the importance of the correct material choice. If you have a critical application that requires a more specialised packing than those listed here, please do not hesitate to contact us.



Specialised sizes, constructions and certifications have all been produced in the past and we would welcome the opportunity to work with you to create the exact packing that your individual application requires.

In addition to our ability to produce custom styles of pump and valve packing, AG is also able to offer a number of other round and square sealing ropes. These include:



Aramid Ropes

Exhibiting excellent abrasion resistance and very high mechanical strength, Aramid Rope is available from AG in a variety of different sizes. These tough, long lasting ropes are typically employed in applications with temperatures up to 340°C that are expected to see a large degree of dynamic movement.



Fibreglass Square Packing and Ropes

Used in applications with temperatures up to 500°C, Fibreglass is an excellent thermal insulation material with good mechanical properties. AG offers this quality product in an enormous range of forms which includes multiple sizes of square fibreglass packing as well as braided and twisted round ropes that are available in different densities.



Refrasil Ropes

Braided from texturised, pre-shrunk, high purity silica fibres, Refrasil Ropes are a high density insulation material used in temperatures up to 982°C. These high performance ropes resist attack from a wide variety of chemicals, exhibit good durability and are available in a variety of diameters.



Ceramic Square Packing and Ropes

Designed for use in extreme temperatures (up to 1200°C depending on the grade), AG's Ceramic Packing and Ropes are available in a variety of styles, sizes and grades. This selection includes braided packing reinforced with either fibreglass or nickel chrome as well as a vast array of twisted and braided round ropes.





For more details on any of the enormous variety of products, services and solutions offered at AG

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