



Administration Headquarters



50,000m² Manufacturing Plant and Logistics Center



AIGI ENVIRONMENTAL INCORPORATED

— A Subsidiary of AIGI Industrial Group —

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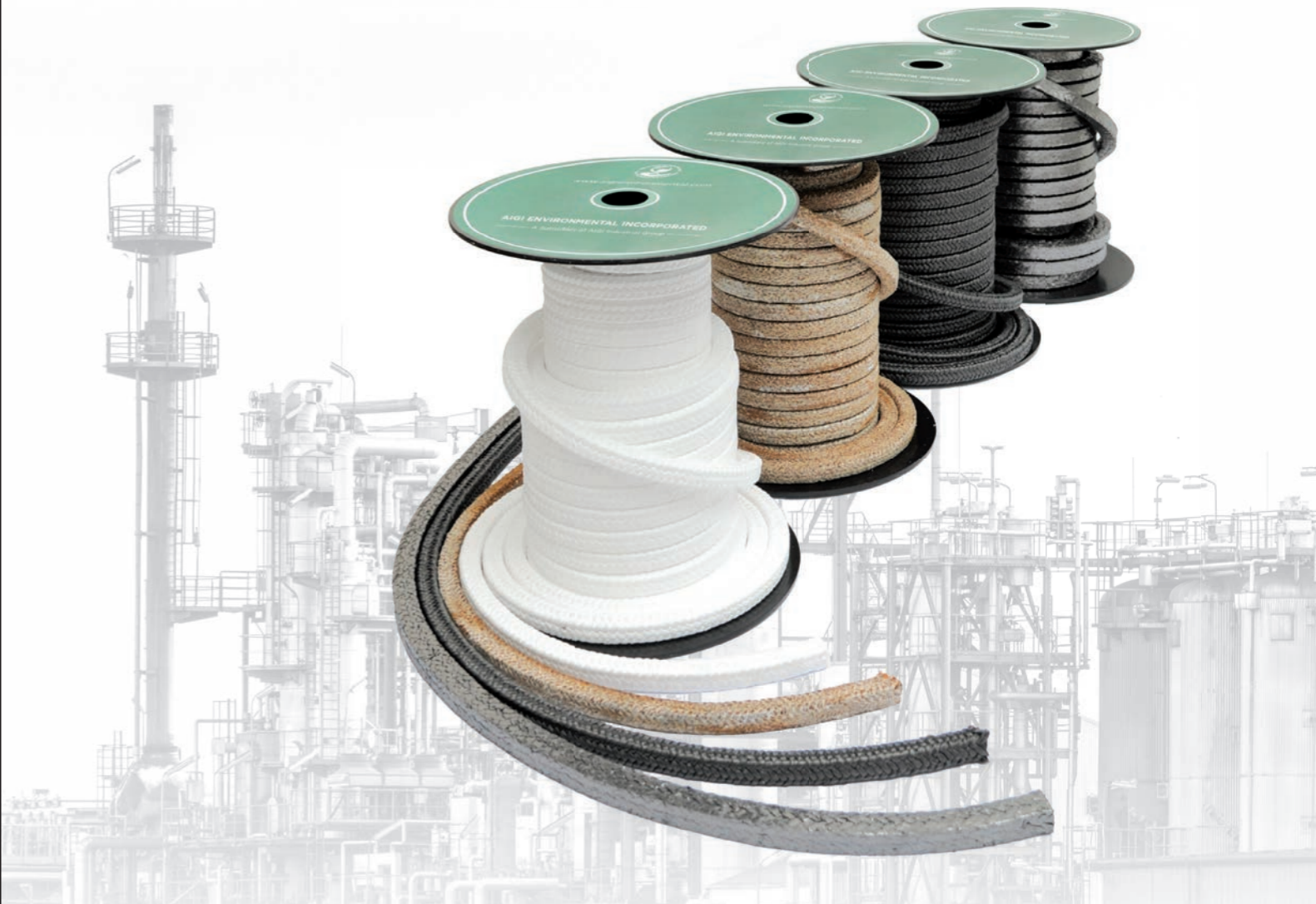


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J100-2023P3V1.0E



HIGH QUALITY PACKINGS



International Patented *Castle*® Packing System



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Castle® Packing System

 Carry

 Measure

 Cut



Valve Packing & Pump Packing

New Patented Castle® Packing System that saves time, eliminates expensive cutting waste and protects workers from injury.

• Feature 1: Convenient to Carry

Specially Designed Box Holds Replaceable Packing Spools

• Feature 2: Easy to Measure

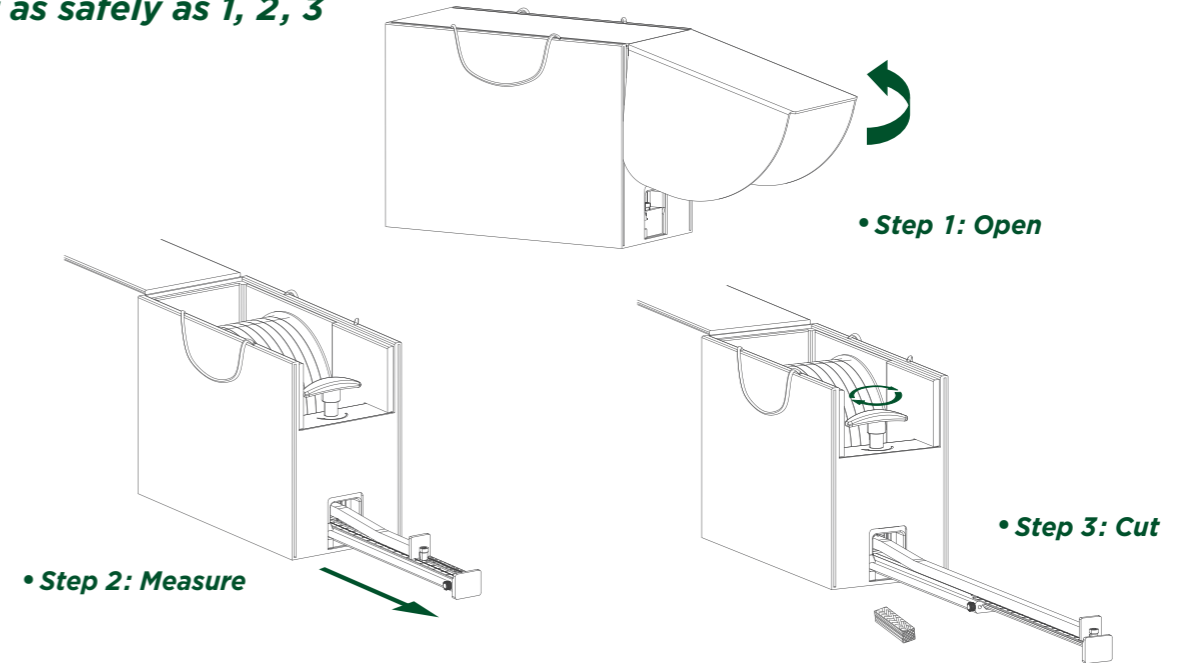
Integrated Measuring and Cutting Tools for Fast, Accurate Ring Cutting

• Feature 3: Safe to Cut

No Worker Exposure to Sharp Cutting Tools



Cut as safely as 1, 2, 3



To Order Please Specify the Following

Packing Style	Major Fiber Material	Recommended Cuts	Tested Cuts
AIGI SSSP Special Slurry Packing	Carbon Fiber & PTFE	350	> 700
AIGI 93K Multi-Service packing	PTFE/Graphite Yarn & Aramid Yarn	350	> 700
AIGI 95W High Reliability General Service Packing	Thermoset Fibers	350	> 700
AIGI 97W Synthetic Multi-Service Packing	Synthetic Composite Yarn	400	> 800
AIGI 21 Carbon Fiber Packing	Carbon Fiber	450	> 900
AIGI 22 High Temperature Pump/Valve Packing	Carbon Fiber & Graphite Fiber	450	> 900
AIGI 23 Special Abrasion Resistant Packing	PTFE Filament & Aramid Fiber	400	> 800
AIGI 24 High Temperature Pump Packing	Carbon Fiber	450	> 900
AIGI 25 Special Aramid Packing	Aramid Fiber	350	> 700
AIGI 26 General Service Pump Packing	PTFE Fiber & Graphite	600	> 1,200
AIGI 26W General Service PTFE Valve Packing	PTFE Fiber (White)	600	> 1,200
AIGI 27 General Service Pump Packing	Ramie Fiber	500	> 1,000
AIGI 27W General Service Pump Packing	Ramie Fiber (White)	500	> 1,000
AIGI 28 Universal Pump/Valve Packing	Graphite Fiber	500	> 1,000
AIGI 95 High Efficiency Pump/Valve Packing	Phenolic Fiber	350	> 700
AIGI 98 High Temperature/High Speed Pump and Valve Packing	Graphite Fiber	500	> 1,000

* Lab results for individual production lots on 20mm×20mm cross section packings; some variability will occur.

Packing Size

mm	6	8	10	12	14	16	19	20	22
inch	1/4	5/16	3/8	1/2	9/16	5/8	3/4	13/16	7/8

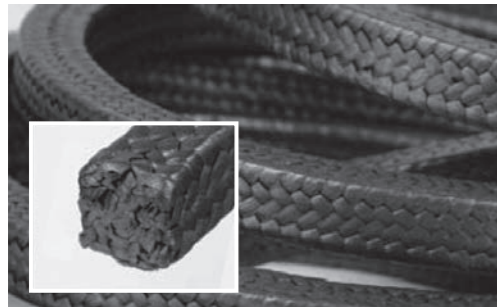
Package Details

4 in 1	AIGI CASTLE PACKING×1 + 5LB SPOOL×4
	AIGI CASTLE PACKING×1 + 2.5kg SPOOL×4

AIGI SSSP (Super Slurry Sealing Packing)

Product Description

AIGI SSSP Packing is braided using a mix of high carbon content carbon fibers and PTFE yarn and then finish lubricated with high quality graphite. The high temperature resistance strength, self-lubricating properties of high carbon fiber combined with the flexibility, chemical resistance and stuffing box conformability of PTFE fibers makes AIGI SSSP the optimal choice for slurry applications in industries such as mining, pulp and paper, metals processing and power.



Property	Value
Color	Black / Grey
Temperature	260°C (500°F)
PH Range	0 - 13
Speed	18m/s (3600 Ft/min)
Pressure	28kg/cm ² (400 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

Virtually all pumps, mixers and agitators in most slurry applications

AIGI 93K (Multi-Service packing)

Product Description

AIGI 93K Multi-Service packing is a combination of heat dissipating PTFE/Graphite yarn and high strength lubricated Aramid yarn. The PTFE/Graphite yarn provides excellent conformability to the shaft and stuffing box bore which results in excellent leakage performance and sealability while the Aramid reinforced corners provide resistance to extrusion. The combination of the two unique yarns makes AIGI 93K an optimal choice for the most aggressive abrasion and slurry applications in mining, power plants, waste water, steel and other metals processing industries.



Property	Value
Color	Black / Yellow
Temperature	260°C (500°F)
PH Range	3 - 12
Speed	12m/s (2400 Ft/min)
Pressure	25kgf/cm ² (360 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

The most aggressive abrasion and slurry applications in mining, power plants, waste water, steel and other metals processing industries

AIGI 95W (High Reliability General Service Packing)

Product Description

AIGI 95W is made of thermoset fibers which provide extraordinary heat resistance while maintaining excellent leakage control and energy saving.

The fiber has outstanding abrasion-resistant performance and does not score the shaft or glaze.



Property	Value
Color	White
Temperature	290°C (554°F)
PH Range	1 - 13
Speed	10m/s (2000 Ft/min)
Pressure	28kgf/cm ² (400 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

High reliability pump packing for general service use in agitators, mixers, water pumps, etc.

AIGI 97W (Synthetic Multi-Service Packing)

Product Description

AIGI 97W is an interbraid packing which combines a newly developed synthetic composite yarn with a specially formulated break-in lubricant. Purified colloidal lubricant and high tensile strength of AIGI 97W prevent failure at start-up and maintain continuous lubrication throughout the break-in process.



Property	Value
Color	White
Temperature	230°C (450°F)
PH Range	4 - 14
Speed	10m/s (2000 Ft/min)
Pressure	18kgf/cm ² (250 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

Mild acids & caustics, brine, gases, oils, steam, non-abrasive water based services and general chemical plant applications

AI GI 20 (Extremely High Temperature Packing)

Product Description

AI GI 20 Packing is braided from ceramic fiber and corrosion resistant thin metal wire. It could withstand high temperature and has excellent thermal insulation properties. It has outstanding ability to resist molten Aluminum, Chromium and other nonferrous metals. AI GI 20 Packing is an ideal extreme high temperature packing.



Property	Value
Color	White
Temperature	1260°C (2300°F)
PH Range	2 - 13
Pressure	5kg/cm ² (70 PSI)

* Lab results for individual production lots tested; some variability will occur.

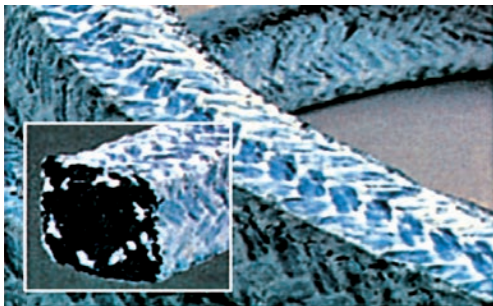
Application

Hot air pipe flange, oven door, combustion chamber, boiler, chimney door, tunnel furnace, container door, manhole cover, the flange of high temperature, max.working temperature up to 1260°C

AI GI 21 (Carbon Fiber Packing)

Product Description

AI GI 21 is a low modulus, continuous filament high-carbon fiber packing which is doubly impregnated PTFE lubricant. AI GI 21 has a unique inorganic blocking agent and corrosion inhibitor which prevents stem pitting and stops gas/liquid penetration. It is specially designed to be used in pumps and valves against water, oil, steam, solvent, acid and alkali media.



Property	Value
Color	Black
Temperature	260°C (500°F)
PH Range	1 - 14
Speed	15m/s (3000 Ft/min)
Pressure (pump)	30kg/cm ² (435 PSI)
Pressure (valve)	200kg/cm ² (2900 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

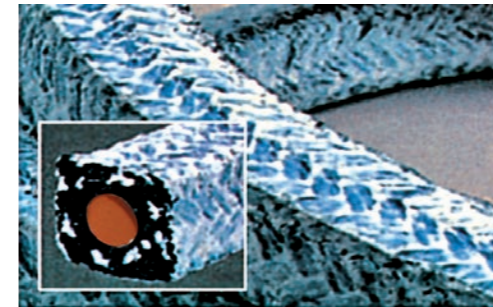
Application

Pumps and valves against steam, water, solvents, acids and alkalies

AI GI 21SC (AI GI 21 with Single Silicone Rubber Core)

Product Description

AI GI 21SC combines a resilient single silicone rubber core with the low modulus, continuous filament high carbon fiber of AI GI 21. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. A unique inorganic blocking agent and corrosion inhibitor prevent stem pitting and stops gas/liquid penetration. It is specially designed to be used in pumps, valves, mixers and agitators against water, oil, steam, solvent, acid and alkali.



Property	Value
Color	Black
Temperature	260°C (500°F)
PH Range	2 - 12
Speed	15m/s (3000 Ft/min)
Pressure (pump)	30kgf/cm ² (435 PSI)
Pressure (valve)	200kgf/cm ² (2900 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

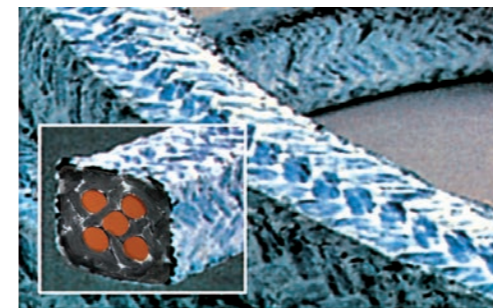
Application

Pumps, valves, mixers and agitators against steam, water, solvents, acids and alkalies

AI GI 21MSC (AI GI 21 with Multi-Silicone Rubber Cores)

Product Description

AI GI 21MSC combines resilient multi-silicone rubber cores with the heat resistant high carbon fiber of AI GI 21. The elastic rubber core gives the packing better memory, allowing it to withstand extreme radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. A unique inorganic blocking agent and corrosion inhibitor prevents stem pitting and stops gas/liquid penetration. It is specially designed to be used in pumps, valves, mixers and agitators on water, oil, steam, solvent, acid and alkali.



Property	Value
Color	Black
Temperature	260°C (500°F)
PH Range	2 - 12
Speed	15m/s (3000 Ft/min)
Pressure (pump)	30kgf/cm ² (435 PSI)
Pressure (valve)	200kgf/cm ² (2900 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

Pumps, valves, mixers and agitators against steam, water, solvents, acids and alkalies

AI GI 22 (High Temperature Pump/Valve Packing)

Product Description

AI GI 22 is made from a high strength, high purity carbon fiber with only minor quantities of braiding sizings added giving the finished packing great temperature and pressure resistance. It is designed for use in high temperature valves and pumps against steam, hot water, solvents, acids and alkalies.



Property	Value
Color	Black
Temperature (steam)	565°C (1050°F)
Temperature (Oxygen)	310°C (590°F)
PH Range	1 - 13
Speed	15m/s (3000 Ft/Min)
Pressure (pump)	30kgf/cm ² (435 PSI)
Pressure (valve)	250kgf/cm ² (3600 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

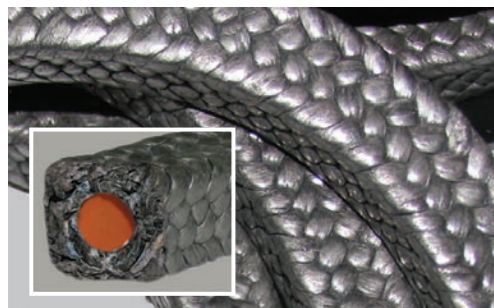
Application

Pumps and valves against steam, water, solvents, acids and alkalies

AI GI 22SC (AI GI 22 with Single Silicone Core)

Product Description

AI GI 22SC combines a resilient single silicone rubber core with the heat resistant high strength, high purity fiber of AI GI 22. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. Easy-to-use 22SC packing controls leakage effectively while drastically reducing shaft damage. It is specially designed to be used in high temperature pump and valve applications.



Property	Value
Color	Black
Temperature	240°C (465°F)
PH Range	2 - 12
Speed	15m/s (3000 Ft/min)
Pressure (pump)	30kgf/cm ² (435 PSI)
Pressure (valve)	250kgf/cm ² (3600 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

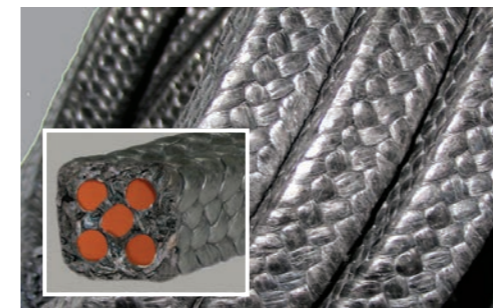
Application

Pumps and valves against steam, water, solvents, acids and alkalies

AI GI 22MSC (AI GI 22 with Multi-Silicone rubber Cores)

Product Description

AI GI 22MSC combines a resilient multi-silicone rubber core with the heat resistant, high purity carbon fiber of AI GI 22. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. Easy-to-use 22MSC packing controls leakage effectively while it drastically reduces damage to shafts. It is specially designed to be used in high temperature pump and valve.



Property	Value
Color	Black
Temperature	240°C (465°F)
PH Range	2 - 12
Speed	15m/s (3000 Ft/min)
Pressure (pump)	30kgf/cm ² (435 PSI)
Pressure (valve)	250kgf/cm ² (3600 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

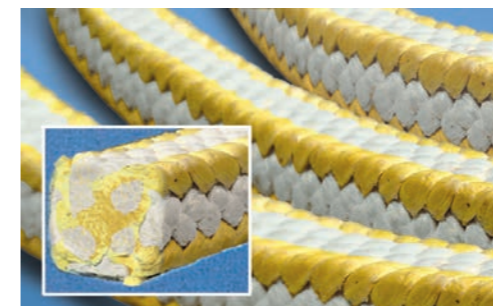
Application

Pumps and valves against steam, water, solvents, acids and alkalies

AI GI 23 (Special Abrasion Resistant Packing)

Product Description

AI GI 23 is a braided PTFE fiber packing with high strength Aramid fiber corners. Because of the Aramid fiber's high strength and PTFE's self-lubrication, AI GI 23 has excellent flexibility and abrasion resistance. With the addition of a post braiding PTFE lubricant, AI GI 23 significantly reduces shaft wear normally associated with Aramid fiber packings. AI GI 23 is designed to be used in aggressive slurry and high abrasive content applications.



Property	Value
Color	Yellow/White
Temperature	260°C (500°F)
PH Range	4 - 12
Speed	10m/s (2000 Ft/min)
Pressure	25kg/cm ² (360 PSI)

* Lab results for individual production lots tested; some variability will occur.

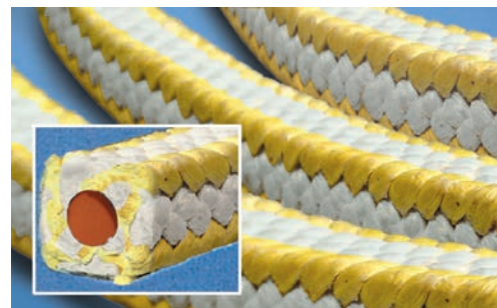
Application

Slurry and abrasive pump applications in mining, power, sewerage and pulp and paper

AI GI 23SC (AI GI 23 with Single Silicone Rubber Cores)

Product Description

AI GI 23SC adds a resilient single silicone rubber core to AI GI 23 packing .The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. AI GI 23SC has excellent flexiblability and abrasion resistance. With the addition of of a post braiding PTFE lubricant, AI GI 23SC significantly reduces the shaft wear normally associated with Aramid fiber packings.



Property	Value
Color	Yellow/White
Temperature	260°C (500°F)
PH Range	4 - 11
Speed	10m/s (2000 Ft/min)
Pressure	25kg/cm ² (360 PSI)

* Lab results for individual production lots tested; some variability will occur.

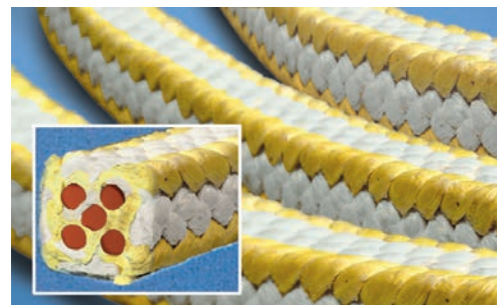
Application

Pumps, mixers and agitators in aggressive slurry applications in mining, power and sewage

AI GI 23MSC (AI GI 23 with Multi-Silicone Rubber Cores)

Product Description

AI GI 23MSC adds resilient multi-silicone rubber cores to AI GI 23. The elastic rubber corse give the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. AI GI 23MSC has excellent flexiblability and abrasion resistance. With the addition of a post braiding PTFE lubricant, AI GI 23MSC significantly reduces the shaft wear associated with Aramid packings.



Property	Value
Color	Yellow/White
Temperature	260°C (500°F)
PH Range	4 - 11
Speed	10m/s (2000 Ft/min)
Pressure	25kg/cm ² (360 PSI)

* Lab results for individual production lots tested; some variability will occur.

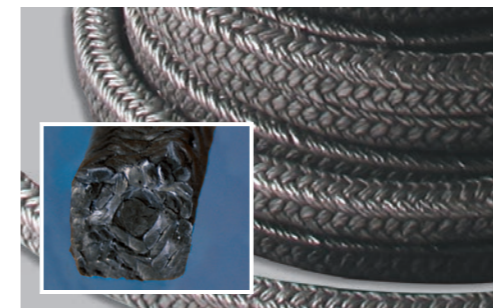
Application

Pumps, mixers and agitators with extreme radial motion in slurry and abrasive applications

AI GI 24 (High Temperature Pump Packing)

Product Description

AI GI 24 is braided from a heat resistant high carbon content fiber and dipped in special lubricants which allow for faster pump start up and better sealability. Specially designed for high temperature and high speed pump applications, unlike traditional Carbon fiber packings AI GI 24 will not burn because of its extreme heat dissipation and low friction properties. It is specially designed for pumps, agitators, mixers, condensate pumps, boilerfeed and vacuum pumps. It is suitable for use in refiners, stock pumps and pulpers in the pulp and paper industry.



Property	Value
Color	Black
Temperature (steam)	565°C (1050°F)
Temperature (Oxygen)	310°C (590°F)
PH Range	1 - 13
Speed	15m/s (3000 Ft/min)
Pressure	250kg/cm ² (3600 PSI)

* Lab results for individual production lots tested; some variability will occur.

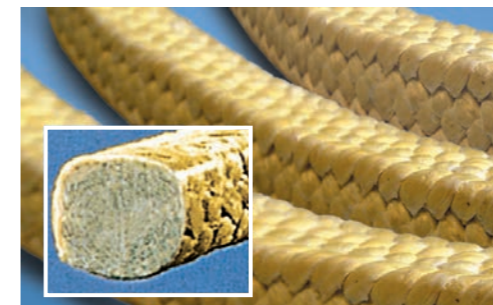
Application

High speed and High Temperature Pumps in power, metals processing and pulp and paper

AI GI 25 (Special Aramid Packing)

Product Description

AI GI 25 is an interbraid packing using special wear-resisting Aramid fiber yarn. AI GI 25 has excellent strength, flexibility and abrasive resistance.It is designed to seal the most aggressive abrasive and slurry pump, mixer and agitator applications. The use of a flush is strongly suggested.



Property	Value
Color	Yellow
Temperature	240°C (465°F)
PH Range	4 - 11
Speed	10m/s (2000 Ft/min)
Pressure	25kgf/cm ² (360 PSI)
Reciprocating Pressure	200kgf/cm ² (2900 PSI)

* Lab results for individual production lots tested; some variability will occur.

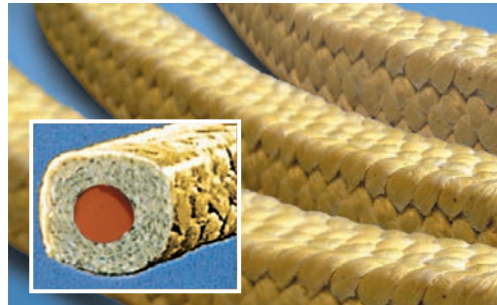
Application

Slurry and abrasive applications in mining, steel, sewage, pulp and paper

AIGI 25SC (AIGI 25 with Single Silicone Rubber Core)

Product Description

AIGI 25SC adds a resilient single silicone rubber core to AIGI 25 packing. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. AIGI 25SC provides additional shaft stability in difficult abrasive and slurry applications for longer life.



Property	Value
Color	Yellow
Temperature	240°C (465°F)
PH Range	4 - 11
Speed	10m/s (2000 Ft/min)
Pressure	25kgf/cm ² (360 PSI)
Reciprocating Pressure	200kgf/cm ² (2900 PSI)

* Lab results for individual production lots tested; some variability will occur.

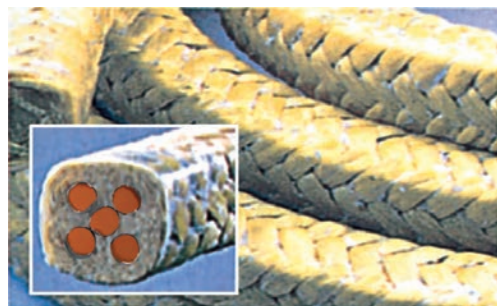
Application

Pumps, mixers and agitators in mining, steel, sewage, pulp and paper

AIGI 25MSC (AIGI 25 with Multi-Silicone Rubber Cores)

Product Description

AIGI 25MSC adds resilient multi-silicone rubber cores to AIGI 25 packing. The elastic rubber cores give the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. AIGI 25MSC is designed to provide shaft stability in the most extreme radial motion and vibration slurry and abrasive applications.



Property	Value
Color	Yellow
Temperature	240°C (465°F)
PH Range	4 - 11
Speed	10m/s (2000 Ft/min)
Pressure	25kgf/cm ² (360 PSI)
Reciprocating Pressure	200kgf/cm ² (2900 PSI)

* Lab results for individual production lots tested; some variability will occur.

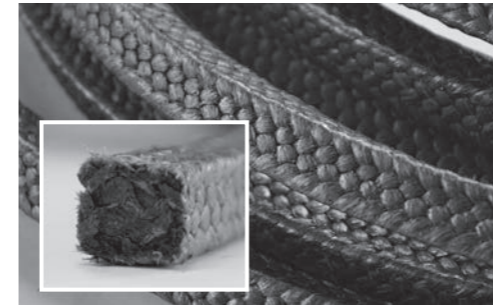
Application

Pumps, mixers and agitators in mining, steel, sewage, pulp and paper

AIGI 26 (General Service Pump Packing)

Product Description

AIGI 26 is braided from PTFE yarn and then coated with a graphite dispersion to dissipate heat. AIGI 26 is a dense braid which ensures excellent leakage control, less lubricant migration, less frictional heat build up and excellent heat dissipation for longer life. As a low-friction packing, AIGI 26 is used widely in general service pump applications as well as the toughest chemical applications.



Property	Value
Color	Black
Temperature	260°C (500°F)
PH Range	0 - 14
Speed	10m/s (2000 Ft/min)
Pressure	40kg/cm ² (580 PSI)

* Lab results for individual production lots tested; some variability will occur.

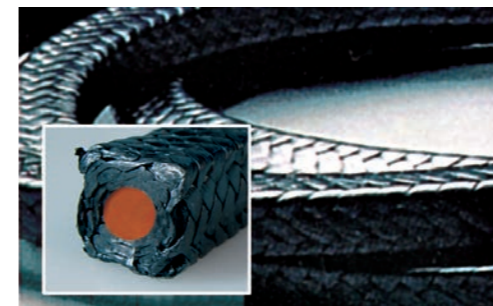
Application

Universal pump packing suitable for chemicals, water, acid, alkalis and light slurries

AIGI 26SC (AIGI 26 with Single Silicone Rubber Core)

Product Description

AIGI 26SC adds a resilient single silicone rubber core to AIGI 26 packing. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. As a low-friction packing, AIGI 26SC is an excellent choice as a general service pump packing. It is especially effective in pumps, mixers and agitators where radial runout is a problem.



Property	Value
Color	Black
Temperature	260°C (500°F)
PH Range	2 - 12
Speed	10m/s (2000 Ft/min)
Pressure	40kg/cm ² (580 PSI)

* Lab results for individual production lots tested; some variability will occur.

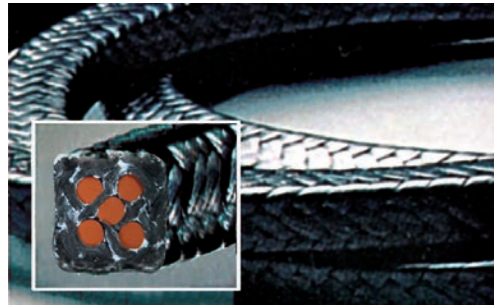
Application

General service pump, agitator and mixer packing where radial runout is an issue

AI GI 26MSC (AI GI 26 with Multi-Silicone Rubber Cores)

Product Description

AI GI 26MSC adds resilient multi-silicone rubber cores to AI GI 26 packing. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. As a low-friction, dense packing, AI GI 26MSC is used in pumps, mixers and agitators to stabilize extreme runout conditions.



Property	Value
Color	Black
Temperature	260°C (500°F)
PH Range	2 - 12
Speed	10m/s (2000 Ft/min)
Pressure	40kgf/cm ² (580 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

General service packing for pumps, mixers and agitators where extreme radial runout exists

AI GI 26W (General Service PTFE Valve Packing)

Product Description

AI GI 26W is 100% pure non-hardening PTFE fiber braid with an additional coating of pure PTFE dispersion for better sealability. AI GI 26W is a universal valve packing for chemical and low pressure steam applications. It is a highly effective, long term sealing solution for manually operated valves and its low friction properties make it particularly suitable for air operated control valves.



Property	Value
Color	White
Temperature	260°C (500°F)
PH Range	0 - 14
Speed	10m/s (2000 Ft/min)
Pressure	40kgf/cm ² (580 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

General service valve packing for steam, water and chemicals

AI GI 26WSC (AI GI 26W with Single Silicone Rubber Core)

Product Description

AI GI 26WSC adds a resilient single silicone rubber core to AI GI 26W. The elastic rubber core gives the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. AI GI 26WSC is used widely in pump applications requiring additional stability because of shaft runout.



Property	Value
Color	White
Temperature	260°C (500°F)
PH Range	2 - 12
Speed	10m/s (2000 Ft/min)
Pressure	40kgf/cm ² (580 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

General service pump, mixer and agitator packing designed for shaft stabilization

AI GI 26WMSC (AI GI 26W with Multi-Silicone Rubber Cores)

Product Description

AI GI 26WMSC adds resilient multi-silicone rubber cores to AI GI 26W. The elastic rubber cores give the packing better memory, allowing it to withstand radial shaft motion and vibration while maintaining excellent leakage control with minimal gland adjustment. AI GI 26WMSC is used widely where extreme shaft runout is a problem.



Property	Value
Color	White
Temperature	260°C (500°F)
PH Range	2 - 12
Speed	10m/s (2000 Ft/min)
Pressure	40kgf/cm ² (580 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

Pumps, mixers and agitators with extreme runout problems

AI GI 27/27W (General Service Pump Packing)

Product Description

AI GI 27/27W are lubricated Synthetic Fiber Packings for general service pump applications. AI GI 27 is lubricated with graphite for heat dissipation while 27W is lubricated with special lubricants to produce a clean, white non-staining packing. AI GI 27/27W are general service pump packings for use in mining, wastewater and sewage plants, municipal water plants, paper mills and marine applications as well as in mild acid and alkali applications and slurries.



Property	Value
Color	Black/ White
Temperature	150°C (300°F)
PH Range	4 - 12
Speed	12m/s (2500 Ft/min)
Pressure (pump)	40kg/cm ² (580 PSI)
Pressure (valve)	80kg/cm ² (1160 PSI)

* Lab results for individual production lots tested; some variability will occur.

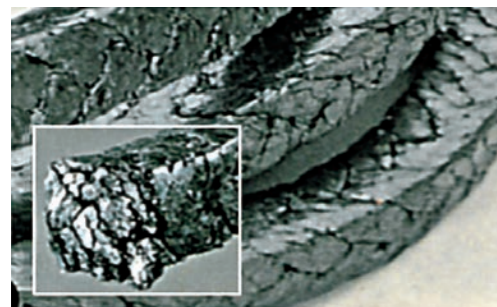
Application

General service pump applications sealing water, slurries and mild acids and alkalis

AI GI 28 (Universal Pump/Valve Packing)

Product Description

AI GI 28 is an interbraid packing made from carbon fiber reinforced flexible graphite yarn. In pumps AI GI 28 offers excellent leakage control because of its low friction, self-lubricating design and stuffing box conformability. In valves AI GI 28 offers excellent general service sealability and good chemical resistance.



Property	Value
Color	Black
Temperature	450°C (850°F)
PH Range	0 - 14
Speed	20m/s (4000 Ft/min)
Pressure (pump)	30kgf/cm ² (435 PSI)
Pressure (valve)	200kgf/cm ² (2900 PSI)
Reciprocating Pressure	100kgf/cm ² (1450 PSI)

* Lab results for individual production lots tested; some variability will occur.

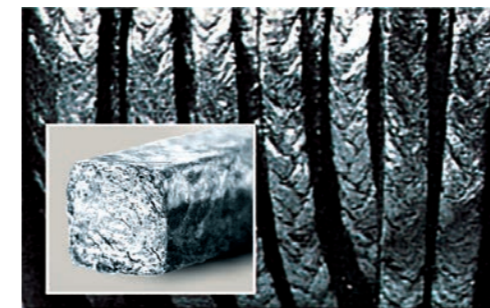
Application

General service pump and valve packing against water, steam and chemicals

AI GI 29 (High Temperature/High Pressure Valve Packing)

Product Description

AI GI 29 uses a nickel wire reinforced Flexible Graphite yarn embedded in a nickel wire knit jacket which is interbaided and then coated with special blocking agents for enhanced sealability. The extreme temperature resistance of the flexible graphite combined with the outstanding extrusion resistance of the nickel wire makes AI GI 29 an obvious choice for high temperature/high pressure steam valve applications. The chemical resistance of Flexible Graphite makes AI GI 29 also a good choice for valves chemical and petrochemical plants and refineries.



Property	Value
Color	Black
Temperature	560°C (1050°F)
PH Range	0 - 14
Pressure	300kg/cm ² (4350 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

High temperature/high pressure valves in power plants, refineries, chemical and petrochemical plants

AI GI 95 (High Efficiency Pump/Valve Packing)

Product Description

AI GI 95 is an interbraid packing using a high quality Synthetic Fiber which is lubricated before and after braiding with PTFE dispersion and then finished with a unique break-in lubricant. Because of the lubrication through out the packing it offers extended packing life and dramatically reduces equipment damage.



Property	Value
Color	Brown
Temperature	260°C (500°F)
PH Range	0 - 13
Speed	10m/s (2000 Ft/min)
Pressure	15kgf/cm ² (220 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

High efficiency pump packing for general service use against water, mild chemicals and light slurries

AIGI 98 (High Temperature/High Speed Pump and Valve Packing)

Product Description

AIGI 98 is an interbraid Packing using high quality carbon fiber reinforced flexible graphite tape. The extreme temperature resistance, self-lubricated capability and high heat dissipation make AIGI 98 an excellent choice for high temperature and high speed equipment. The tremendous sealability and strength of the reinforced flexible graphite also make it an excellent choice for valves in chemical and petrochemical plants and refineries as well as power plants.



Property	Value
Color	Black
Temperature	650°C (1200°F)
PH Range	0 - 14
Speed	20m/s (4000 Ft/min)
Reciprocating Pressure	200kgf/cm ² (2900 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

Pumps and valves in power plants, chemical and petrochemical plants and refineries

AIGI 99 (Super High Temperature/High Pressure Valve Packing)

Product Description

AIGI 99 is a tight, densely interbraided graphite Packing where each flexible graphite yarn is reinforced with a nickel wire mesh that improves strength and blowout and extrusion resistance. The dense construction, blowout and extrusion resistance and general stuffing box conformability of the flexible graphite make AIGI 99 the optimum packing for sealing high temperature and high pressure steam as well as a wide range of chemicals.



Property	Value
Color	Black
Temperature (Steam)	650°C (1200°F)
Temperature (Oxygen)	455°C (850°F)
PH Range	0 - 14
Pressure	300kg/cm ² (4400 PSI)

* Lab results for individual production lots tested; some variability will occur.

Application

All types of valves in power plants, refineries, petrochemical and chemical plants

AIGI 260L (Tank Cover Packing)

Product Description

AIGI 260L is designed to handle the unique sealing requirements of tank covers, lids and hatches. AIGI 260L starts with a rubber core overwrapped with a high quality PTFE film. This core is then overbraided with the non-absorbent, chemically resistant polypropylene yarn. The combination of the two gives this packing its excellent compressibility and elasticity. The flexible core is then wrapped with a double layer of high quality PTFE film. Finally, AIGI 260L is overbraided with a tough, pure PTFE filament jacket that protects the PTFE film barrier from damage.



Property	Value
Color	White
Temperature	100°C (212°F)
PH Range	0 - 14

* Lab results for individual production lots tested; some variability will occur.

Application

Tank covers, hatches and lids found in marine and rail based chemical transport equipment

AIGI 1010 (Injectable Packing)

Product Description

AIGI 1010 is an advanced stuffing box leakage control sealant made of high purity, reinforced fiber available in a graphite formulation or a white, non-staining formulation. This high purity, fiber reinforced sealant creates a solid composite ring that has no leak paths.



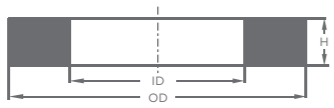
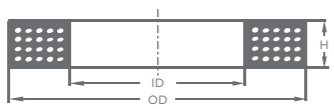
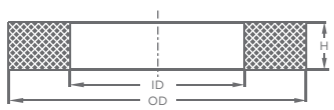
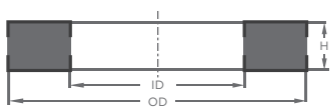
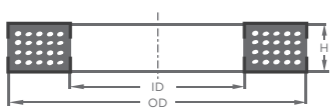
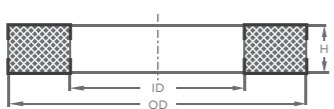


Property	Value
Color	Black/White
Temperature	200°C (400°F)
PH Range (Black)	4 - 13, not recommend for oxidizing agents
PH Range (White)	1 - 13, not recommend for oxidizers, fluorine, chlorine trifluoride, related compounds and molten alkali metals
Speed (Black)	8m/s (1500 Ft/min)
Speed (White)	10m/s (2000 Ft/min)

* Lab results for individual production lots tested; some variability will occur.


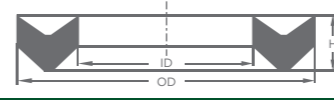
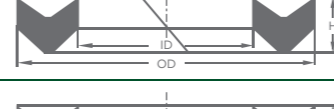
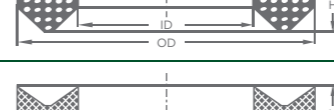
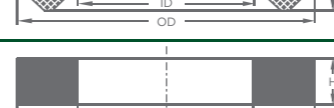
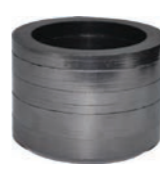
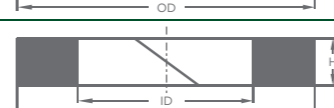
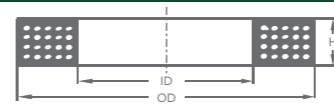


Application

Stock pumps, white water pumps, river water pumps, condensate pumps, water treatment pumps



Packing Ring

Cross Section	Code	Material	
	AIGI 1GS0	Graphite	
		AIGI 1GS1	Graphite + Nickel wire
		AIGI 1GS2	Graphite + Nickel mesh
	AIGI 1GS0-304	Graphite	
		AIGI 1GS1-304	Graphite + Nickel wire
		AIGI 1GS2-304	Graphite + Nickel mesh
	AIGI 1GW0	Graphite	
		AIGI 1GW1	Graphite + Nickel wire
		AIGI 1GW2	Graphite + Nickel mesh
	AIGI 1GW0-304	Graphite	
		AIGI 1GW1-304	Graphite + Nickel wire
		AIGI 1GW2-304	Graphite + Nickel mesh

Graphite Packing Ring Set

Type	Cross Section	Code	Material
 <p>Type V</p>		AIGI 1GVO	Graphite
		AIGI 1GVO-QIE	Graphite
		AIGI 1GV1	Graphite + Nickel wire
		AIGI 1GV2	Graphite + Nickel mesh
 <p>Type Matrix</p>		AIGI 1GS0	Graphite
		AIGI 1GS0-QIE	Graphite
		AIGI 1GS1	Graphite + Nickel wire
		AIGI 1GS2	Graphite + Nickel mesh

Graphite Packing Ring Set Assemble

Type	Code	Material
 <p>Back to Back</p>	AIGI 14+AIGI 1GS0 AIGI 14+AIGI 1GS0-QIE AIGI 14+AIGI 1GS1 AIGI 14+AIGI 1GS2	End Ring : AIGI 14 Sealer Ring : Graphite Packing Ring
 <p>One by One</p>	AIGI 14+AIGI 1GS0 AIGI 14+AIGI 1GS0-QIE AIGI 14+AIGI 1GS1 AIGI 14+AIGI 1GS2	AIGI 14 + Graphite Packing Ring