

BonePacTM



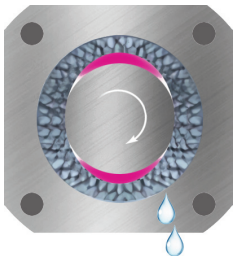
Packing with "Spine"

- ★ ***Cross-spine enhances strength, preventing extrusion***
- ★ ***Four-side elastomers enhance elasticity, preventing deformation***
- ★ ***Reduces leakage under bad equipment conditions***
- ★ ***Multiple fiber options for diverse media***
- ★ ***with Castle[®] patented boxes: Carry, Measure & Safe Cut all-in-1***

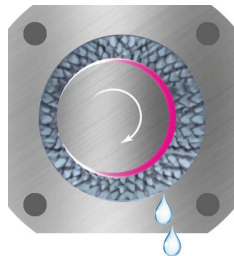


Causes of Conventional Packings Failure

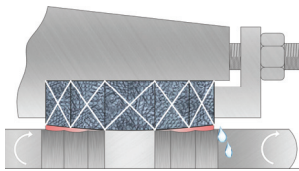
× Shaft Runout



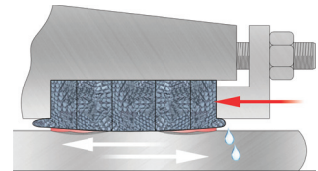
× Shaft Eccentricity



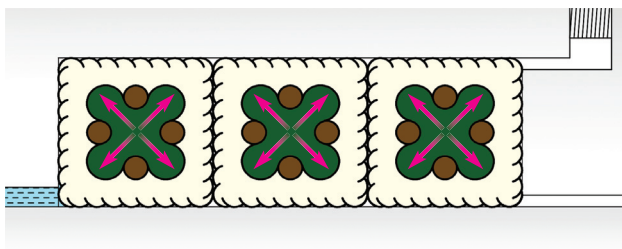
× Shaft Axial Movement



× Extrusion

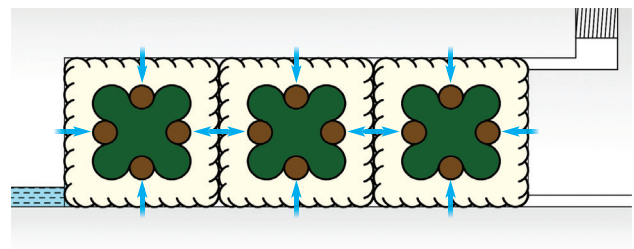


How BonePac™ Works:



Anti-extrusion

Spine mechanism



Anti-deformation

Rebound mechanism

Solution Comparison

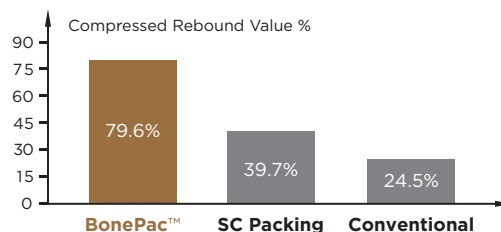
Item	Elasticity	Strength	Radial Runout	Axial movement	Eccentricity	Extrusion
Silicone Core Packing	✓	-	✓	-	-	-
BonePac™	✓	✓	✓	✓	✓	✓

AI GI BonePac™ vs. Conventional / SC Packing

Packing Compression Rebound Comparison > 2 times higher

Test: Cross-section 17.5mm, Load pressure-15Mpa, rebound/compression value

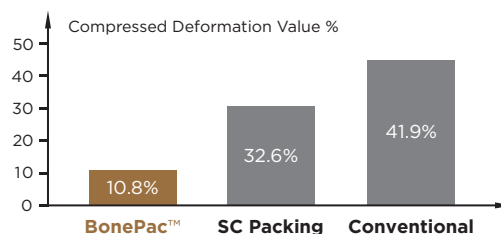
Item	BonePac™	SC Packing	Conventional Packing
Rebound Value	79.60%	39.70%	24.50%



Packing Compression Deformation Comparison > 3 times lower

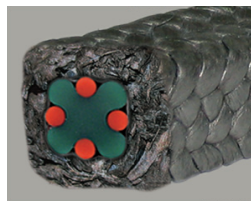
Test: Cross-section 17.5mm, load pressure 15MPa, deformation loss/initial value

Item	BonePac™	SC Packing	Conventional Packing
Deformation Value	10.80%	32.60%	41.90%



AI GI BonePac™ Packing Series

Launched:



AI GI 22 BonePac Graphite-impregnated high-carbon fiber Packing

AI GI 22MSC Braided from high-carbon and flexible graphite fibers, impregnated with premium sealing media. Eliminates brittleness of carbon seals, protects shafts, prevents gas/liquid penetration, avoids shaft erosion.

Specifications • Temp.: ≤ 240°C • Speed: ≤ 15m/s • pH: 2~12 • Pressure: ≤ 30kg/cm²

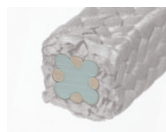


AI GI 26W BonePac PTFE-impregnated PTFE fiber Packing

AI GI 26WMSC 100% PTFE fiber braided packing, low friction, high lubrication, non-polluting. Stable against strong corrosive media (acids, alkalis, solvents).

Specifications • Temp.: ≤ 240°C • Speed: ≤ 10m/s • pH: 2~12 • Pressure: ≤ 40kg/cm²

Coming Later:



AI GI 93SSSP BonePac
Expanded PTFE
Graphite Packing



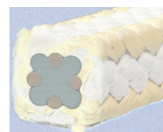
AI GI 95 BonePac
Thermoset
Synthetic
Yarn Packing



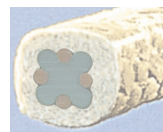
AI GI 95W BonePac
Thermoset
yarn packing



AI GI 97W BonePac
Synthetic
Yarn Packing



AI GI 23 BonePac
PTFE with
Aramid corner
Packing



AI GI 25 BonePac
Aramid Packing



AI GI 27W BonePac
Ramie PTFE
Packing

Available with *Castle®* Packing System



Convenient to Carry

Specially Designed Box

Holds Replaceable Packing Spools



Easy to Measure

Integrated Measuring and Cutting Tools for Fast,
Accurate Ring Cutting



Safe to Cut

No Worker Exposure to Sharp Cutting Tools



AIGI BonePac™ Order Info

Size: 12mm, 14mm, 16mm, 18mm, 19mm, 20mm, 22mm, 25mm, 1/2", 9/16", 11/16", 3/4", 13/16", 7/8", 1"

Weight: 5kg / 10Lb



AIGI ENVIRONMENTAL INCORPORATED

A Subsidiary of AIGI Industrial Group

Contact: info@aigienviromental.com

www.aigienviromental.com



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