

RAITECH® ARA:SOFT® 442

ARA:MAX® SD Spun Aramid fiber
+ PTFE Impregnation.



Mechanical resistance, without
damaging the shaft.

ARA:SOFT® 442 is an inter-braided packing made from carded aramid fibers with fluorinated impregnation. This particular packing is robust, thanks to the high dimensional stability provided by the aramid.

The fluorinated impregnation and inert lubricant result in a very low coefficient of friction and a peripheral speed of up to 13 m/s. The chemical resistance of the aramid, combined with the fluorinated impregnation, allows it to be in contact with a wide range of chemicals (except highly corrosive ones), while its good abrasion resistance allows it to work with suspended solids.

ARA:SOFT® 442 is the perfect solution for equipment handling fluids with solid particles where protecting the shaft sleeve's service life is desired:

- **Dampening and Drainage Pumps:** Excellent for handling water with sand, sludge, or suspended sediments.
- **Paper Industry:** Handling stockpiles of paper, pulp, and abrasive liquors.
- **Mining:** Flotation and light sludge transfer processes.
Sugar Industry: Cane juice and molasses pumps.

Benefits:

- **Reduced Shaft Wear:** The spun texture is less abrasive than continuous filament aramid, reducing friction and heat.
- **Greater Lubricant Retention:** The spun fiber structure acts like a sponge, retaining PTFE impregnation and running lubricants for much longer.
- **Installation Flexibility:** It is much easier to cut and adapt to the stuffing box than other aramid packings, reducing installation errors.
- **Superior Seal:** Thanks to the fluorinated dispersion, the packing is less permeable to gases and liquids under pressure.

**Note: Not for use in applications involving oxygen, concentrated acids, caustic solutions, and alkali metals.*

Common fluids:

- Common fluids:
- Water with sand.
- Wastewater.
- Abrasive sludge.
- Solvents.
- Oils.
- Greases.

Common equipment:

- Drainage pumps.
- Centrifugal pumps.

TECHNICAL DATA

Properties:	ARA:SOFT® 442	Packing
Composition:	ARA:MAX® SD Spun Aramid fiber + PTFE Impregnation.	
Temperature, Max:	536 °F	
Temperature, Min:	-148 °F	
Max. Pressure, Rotating:	290 psi	
Max. Pressure, Reciprocating:	1,233 psi	
Max. Pressure, Valves:	2,031 psi	
Shaft Speed:	2,560 fpm	
pH Range:	2-12	

****The maximum temperature and pressure limits should not occur simultaneously.**

AVAILABILITY:

Availability:	ARA:SOFT® 442	Packing
1/8", 5# Boxes:	68.46	ft / lbs.
3/16", 5# Boxes:	38.69	ft / lbs.
1/4", 5# Boxes:	28.28	ft / lbs.
5/16", 5# Boxes:	17.86	ft / lbs.
3/8", 5# Boxes:	13.39	ft / lbs.
7/16", 5# Boxes:	9.67	ft / lbs.
1/2", 5# Boxes:	7.44	ft / lbs.
9/16", 5# Boxes:	5.80	ft / lbs.
5/8", 11# Boxes:	4.61	ft / lbs.
3/4", 11# Boxes:	3.42	ft / lbs.
7/8", 11# Boxes:	2.53	ft / lbs.
1", 11# Boxes:	1.64	ft / lbs.
Thickness Tolerance:	±10 %	
Notes:	The packaged product may have a variation of ±10%. *Other millimeter measurements and larger cross-sections are available upon request.	