

RAITECH® ARA:MAX® BLACK

ARA:MAX® HT Aramid fiber
+ Self-Lubricating Fluorinated Coating.



Common equipment:

- Reciprocating pumps.
- Centrifugal pumps.
- Digesters.
- Dewatering pumps.
- Refiners.
- Pulpers.

Common fluids:

- Molasses.
- Pastes.
- Sludge.
- Pulp.

The balance between chemical & mechanical resistance, dimensional stability and greater heat dissipation.

Diagonally braided packing using our X-CROSS™ pattern, is constructed from a fusion of PTFE-based FLUORO:GRAF® 2.5+ fibers and fully encapsulated graphite, combined with high-strength aramid-based ARA:MAX® HT fibers, offering substantial improvements over common fibers on the market.

ARA:MAX® BLACK packing is resistant to most chemicals within the pH range of 2-12 (with the exception of molten alkali metals and elemental fluorine).

ARA:MAX® BLACK is the preferred choice for equipment where standard packings fail prematurely due to pressure or suspended solids:

- **Mining and Cement Industries:** Slurry pumps, tailings pumps, and fluid transfer systems containing sand or particles.
- **Pulp and Paper Industries:** Paper stock pumps, digesters, and liquor systems containing fibers. Water Treatment Plants: Wastewater and activated sludge pumps.
- **Sugar Mills:** Equipment handling juices with bagasse or sugar crystals.

Competitive Advantages:

- **Extrusion Resistance:** The corners of ARA:MAX® HT allow operation on equipment with wide mechanical tolerances or slightly off-center shafts without the packing being ejected.
- **Abrasion Protection:** Aramid is extremely resistant to cutting and wear from solid particles that would normally destroy PTFE.
- **Excellent Heat Dissipation:** The special configuration of the FLURO:GRAF® filament ensures that the heat generated by friction is efficiently dissipated, protecting the seal's lifespan.
- **Dimensional Stability:** It does not easily deform under fluctuating pressure loads.

Note: Not recommended for use in highly oxidizing media, fuming nitric acid, aqua regia, gaseous fluorine, inks, and varnishes.

TECHNICAL DATA

Properties:	ARA:MAX® BLACK	Packing
Composition:	ARA:MAX® HT Aramid Fiber + FLUORO:GRAF® 2.5+ PTFE Fiber	
Temperature, Max:	500	°F
Temperature, Min:	-148	°F
Max. Pressure, Rotating:	435	psi
Max. Pressure, Reciprocating:	2,901	psi
Max. Pressure, Valves:	2,901	psi
Shaft Speed:	3,938	fpm
pH Range:	2-12	

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

AVAILABILITY:

Availability:	ARA:MAX® BLACK	Packing
1/4", 5# Boxes:	23.81	ft / lbs.
5/16", 5# Boxes:	16.37	ft / lbs.
3/8", 5# Boxes:	11.16	ft / lbs.
7/16", 5# Boxes:	7.74	ft / lbs.
1/2", 5# Boxes:	6.40	ft / lbs.
9/16", 5# Boxes:	5.21	ft / lbs.
5/8", 11# Boxes:	4.02	ft / lbs.
3/4", 11# Boxes:	2.98	ft / lbs.
7/8", 11# Boxes:	2.23	ft / lbs.
1", 11# Boxes:	1.49	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.	