

# RAITECH® ARA:MAX® COBRA

ARA:MAX® HT Aramid Fiber  
+ CARBO:KING® XT Carbon Fiber



A special version that reduces shaft wear and supports high shaft speeds.

ARA:MAX® COBRA is an inter-braided packing constructed using our Z-CROSS™ methodology, fused from high-strength carbon-based CARBO:KING® fibers and high-performance aramid-based ARA:MAX® HT fibers.

The special Z-CROSS™ configuration provides the packing with excellent heat dissipation around the entire shaft, enabling it to operate in high-speed applications up to 20 m/s. This configuration allows the ARA:MAX® fiber to operate with less friction against the shaft.

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

- **Mining and Cement Industries:** Slurry pumps, tailings pumps, and fluid transfer systems containing sand or particles.
- **Paper and Pulp:** Digesters, Refiners, Pulpers, Paper Stock Pumps, digesters, and liquors 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 and carbon fiber are extremely resistant to cutting and wear from solid particles.
- **Excellent Heat Dissipation:** The special configuration of the CARBO:KING® 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.

[www.raitech.mx](http://www.raitech.mx)

**RAIPACK®**

#### Common equipment:

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

#### Common fluids:

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

## TECHNICAL DATA

Properties:	ARA:MAX® COBRA	Packing
Composition:	ARA:MAX® HT Aramid Fiber + CARBO:KING® XT Carbon Fiber	
Temperature, Max:	536	°F
Temperature, Min:	-148	°F
Max. Pressure, Rotating:	508	psi
Max. Pressure, Reciprocating:	2,901	psi
Max. Pressure, Valves:	3,118	psi
Shaft Speed:	3,938	fpm
pH Range:	2-12	

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

## AVAILABILITY:

Availability:	ARA:MAX® COBRA	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.
<b>Thickness Tolerance:</b>	±10 %	
<b>Notes:</b>	The packaged product may have a variation of ±10%. *Other millimeter measurements and larger cross-sections are available upon request.	