

RAITECH. ARA:TECH® 445

ARA:TECH® Para-Aramid fiber
+ Self-Lubricating Fluorinated Coating.



The alternative for semi-abrasive fluids, but gentle on the shaft.

ARA:TECH® 445 packing is manufactured using a solid braid of high-quality meta-aramid fiber yarns. Each individual filament has been impregnated with a PTFE dispersion and special lubricants to reduce friction and improve sealing capacity during the break-in period.

Unlike aramid, the meta-aramid in **ARA:TECH® 445** is more flexible and less abrasive to shafts, while maintaining excellent mechanical and thermal resistance.

ARA:TECH® 445 offers the following unique characteristics:

- **Mechanical Strength:** High dimensional stability and tensile strength.
- **Low Abrasion:** Protects the service life of sleeves and shafts compared to other synthetic fibers.
- **Chemical Resistance:** Excellent performance against a wide range of industrial fluids.
- **Superior Lubrication:** The PTFE impregnation process ensures a tight seal and cool operation.

ARA:TECH® 445 is ideal for heavy-duty applications requiring a combination of strength and flexibility:

- **Equipment:** Centrifugal pumps, reciprocating pumps, mixers, agitators, and valves.
- **Industries:** Pulp and paper, water treatment, chemical, pharmaceutical, and food processing.
- **Fluids:** Hot water, oils, solvents, mild acids and alkalis, and moderately abrasive slurries.

Common equipment:

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

Common fluids:

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

TECHNICAL DATA

Properties:	ARA:TECH® 445	Packing
Composition:	ARA:TECH® Para-Aramid fiber + Self-Lubricating Fluorinated Coating.	
Temperature, Max:	536	°F
Temperature, Min:	-148	°F
Max. Pressure, Rotating:	435	psi
Max. Pressure, Reciprocating:	1,233	psi
Max. Pressure, Valves:	2,031	psi
Shaft Speed:	2,954	fpm
pH Range:	1-13	

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

AVAILABILITY:

Availability:	ARA:TECH® 445	Packing
1/8", 5# Boxes:	89.29	ft / lbs.
3/16", 5# Boxes:	49.85	ft / lbs.
1/4", 5# Boxes:	25.89	ft / lbs.
5/16", 5# Boxes:	18.01	ft / lbs.
3/8", 5# Boxes:	9.97	ft / lbs.
7/16", 5# Boxes:	8.04	ft / lbs.
1/2", 5# Boxes:	6.25	ft / lbs.
9/16", 5# Boxes:	5.06	ft / lbs.
5/8", 11# Boxes:	4.02	ft / lbs.
3/4", 11# Boxes:	3.13	ft / lbs.
7/8", 11# Boxes:	1.93	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.