

# RAITECH® CARBO:KING® XT



X-CROSS.  
PATTERN



100% High-strength carbon fibers, with solid lubricant.

**CARBO:KING® XT** is an inter-braided packing made from carbon fibers with a purity of no less than 96%, capable of resisting most chemicals within the pH range of 0-14 and temperatures up to 650°C\*. (\*Inert atmospheres, not compatible with strong oxidizers)

The graphite dispersion gives **CARBO:KING® XT** a very low coefficient of friction, allowing it to withstand peripheral speeds of up to 21 m/s.

Its high coefficient of thermal expansion, very similar to that of steel, allows it to operate without requiring major adjustments to the packing.

It also offers the following competitive advantages:

- **Structural Strength:** Thanks to its reinforced carbon fiber core, **CARBO:KING® XT** does not lose volume under pressure, reducing the need for constant readjustments.
- **Maximum Heat Dissipation:** Its high thermal conductivity allows equipment to operate at lower temperatures in the stuffing box, protecting the bearings.
- **Anti-Friction:** The micronized graphite particle finish reduces the torque required to operate motorized valves (MOVs).

**CARBO:KING® XT** packing is specially designed for service in:

- **Soot Blowers:** Resists extreme thermal cycling and constant abrasion.
- **Critical Block Valves:** Ideal for high-pressure steam (HP Steam) services in power plants.
- **Boiler Feed Pumps:** Withstands pressure fluctuations without degradation.
- **Oil Refineries:** Sealing catalytic cracking units and tower bottoms.

#### Common Equipment:

- High-pressure centrifugal pumps.
- High-temperature and steam control valves.
- Agitators and mixers in heavy chemical processes.
- Soot blowers.
- Refiners.
- Pulpers.
- Digesters.

Page 1/1

#### Common Fluids:

- High-pressure steam, condensate, and feedwater.
- Hydrocarbons.
- Hot oils.
- Solvents.
- Acidic and alkaline solutions.
- Fluids with suspended particles.

## TECHNICAL DATA

Properties:	CARBO:KING® XT	Packing
Composition:	CARBO:KING® XT Carbon Fiber + Self-Lubricating Graphite Coating.	
Temperature, Max:	1,202 °F (peak)	
Temperature, Continuous:	842 °F	
Temperature, Min:	-400 °F	
Max. Pressure, Rotating:	319 psi	
Max. Pressure, Reciprocating:	1,160 psi	
Max. Pressure, Valves:	2,611 psi	
Shaft Speed:	4,135 fpm	
pH Range:	0-14	

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

### AVAILABILITY:

Availability:	CARBO:KING® XT	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.	

www.raitech.mx

RAIPACK®

All technical information and recommendations given in this document are based on our experiences, however, we do not accept any liability. The data and values presented must be reviewed by the user, assuming that success in sealing can only occur by evaluating all parameters and variables directly on the job site. The parameters in this document are approximate and may have mutual influence if they occur simultaneously, please contact us in critical applications or where there is doubt.