

Thomson CHEM-ONE

Pulp and paper, chemical,
pump and valve service packing



FEATURES / BENEFITS

- **Non-abrasive:** saves shaft sleeves.
- **Non-asbestos:** reduces handling cost.
- **Non-contaminating:** will not degrade product.
- **High-strength:** extrusion-resistant, lower wear, longer life.
- **Broad chemical compatibility:** saves inventory costs by using one style for all applications.
- Reduces maintenance costs.

TYPICAL APPLICATIONS

- Extreme chemical service such as pumps handling caustic - white/black and green liquor.
- Higher pressure capability than carbon and Teflon® based packings.
- Pulp and Paper industry: digester related equipment, steaming vessel, top separator, bottom outlet, HP feeder, LP feeder.
- Slurry applications that require extrusion-resistant packing, e.g. worn equipment.

SPECIFICATIONS

Construction:

Teflon® impregnated, high strength carbon filament yarn with polybenzimidazole (PBI®) reinforcing braid/anti-extrusion corners. Square interbraid.

Temperatures:

-328°F (-200°C) to +600°F (+315°C)

Pressure:

To 500 psi rotary. For reciprocating or valve service, consult A.R. Thomson Group with application details.

Speed:

3000 fpm (15 m/s)

pH range:

0–12

See reverse for ordering information.

ORDERING INFORMATION - CHEM-ONE

Specify Thomson style, size and quantity (lbs) required.

Size	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/4"
Approx. (ft/lb)	22.4	16.7	11.8	8.9	6.7	5.5	5.0	3.3	2.2	1.7	0.7
Std pkg (lbs)	1/5	5	1/5	5/25	5/10/25	5	5/10/25	5/10/25	10/25	10/25	25

Also available in metric sizes, die formed pre-packaged sets, and specialty cut lengths.
Contact A.R. Thomson Group for any special requirements.

SHAFT SPEED CONVERSION CALCULATIONS

Feet per minute (fpm)	Meter per second (m/s)
Shaft / sleeve diameter (in) x RPM x 0.262 = fpm	Shaft / sleeve diameter (in) x RPM x 0.0013299 = m/s
Shaft / sleeve diameter (mm) x RPM x 0.0103 = fpm	Shaft / sleeve diameter (mm) x RPM x 0.0000524 = m/s

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