

Thomson CHEM-II GFO®

General service compression packing,
rotary and valve applications 0–14 pH



FEATURES/BENEFITS

- Low coefficient of friction, self lubricating - increases equipment life and reliability MTBR (mean time between repairs).
- High strength fiber - reduces sleeve wear and maintenance costs.
- Universal packing applications - saves inventory costs.
- Easy to cut, install and remove.

TYPICAL APPLICATIONS

- Extreme chemical service.
- Acids, caustics and petroleum products.
- Higher shaft speeds than conventional Teflon® packing.
- Soft conformable packing for a broad range of pump and valve applications at medium pressures.
- Rotating equipment pumps, agitators, mixers, blenders, reciprocating pumps and valves.
- Universal packing applications.

SPECIFICATIONS

Construction:

Expanded PTFE (ePTFE), lubricated, graphite impregnated, GORE® GFO® fiber.
Square Interbraid.

Temperature, max:

To +550°F (+288°C)

Pressure, max:

Rotary: 300 psi (22 bar)
Reciprocating pump: 2000 psi (138 bar)
Valves: 2000 psi (138 bar)

*Please contact A.R. Thomson Group if applications require higher pressures.

Speed:

4300 fpm (22 m/s)

pH range:

0–14 (except strong oxidizers)

See reverse for ordering information.

ORDERING INFORMATION - CHEM-II GFO®

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

Size		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	25/32"	7/8"	1"
		3 mm	5 mm	6 mm	8 mm	9 mm	11mm	13 mm	14 mm	16 mm	19 mm	20 mm	22 mm	25 mm
Approx. (ft/lb)		62.5	42.6	19.8	13.4	10.8	7.5	6.3	4.5	3.5	2.6	2.3	2.0	1.4
Std pkg (lb)	1			●	●	●		●						
	2	●	●	●	●									
	5	●		●	●	●	●	●	●	●				
	10					●		●	●	●	●	●	●	●
	25						●	●		●	●	●	●	●
	50							●			●	●		●
Allowable Dimensions (in):		.110– .140	.172– .202	.218– .282	.280– .344	.343– .407	.405– .469	.468– .532	.530– .594	.593– .657	.718– .782	.755– .819	.843– .907	.968– 1.032

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

TOLERANCES AND MEASUREMENT STANDARDS (FSA GUIDELINES)

Cross Section	Tolerance
< 1/4"	+/- 1/64"
1/4" to 1"	+/- 1/32"
> 1"	+/- 1/16"
< 6 mm	+/- 0.4 mm
6 to 25 mm	+/- 0.8 mm
> 25 mm	+/- 1.6 mm

Compression Packing Braiding Dimensional Tolerances per the Fluid Sealing Association (FSA) Guidelines: Compression packings are manufactured from a wide range of materials and combinations of materials. Therefore, the dimensional tolerances of the finished products will vary according to the material and methods of manufacture. The generally accepted method of measurements in the packing manufacturing environment is a hand-held, direct reading, vernier caliper. To ensure concentricity, the inside diameter is measured using a ground dimensional plug gauge and the outside diameter is measured by the above method (caliper) while plug is inserted.

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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