

## Thomson HS-3000M

Pure carbon yarn square interbraid construction compression packing for rotary equipment and valves



### FEATURES / BENEFITS

- Carbon filament - staple fibers conform to the stuffing box, resists extrusion in high pressure applications and/or worn rotating equipment.
- High speed applications - molybdenum disulphide break-in lubricant offers a more forgiving start up.

#### All carbon construction:

- Maximizes equipment reliability and performance.
- Provides excellent chemical resistance.
- Energy savings related to less gland load - less friction, reduced gland water required.
- Dissipates heat better than conventional compression packing. Increased MTBR - mean time between repair - less sleeve damage.
- Dimensionally more stable compared to conventional compression packing (less volume loss).

### TYPICAL APPLICATIONS

- Rotary equipment - high speed rotary to 4000 fpm, digester related equipment.
- Molybdenum disulphide lubricant - extremely chemical and thermally stable.

### SPECIFICATIONS

#### Construction:

Pure carbon yarn with graphite dispersion lubricant - surface coated with molybdenum disulphide. Square interbraid.

#### Temperatures:

Min: -328°F (-200°C)

Max. Atmosphere: to +850°F (+455°C)

Max. Steam: to +1200°F (+650°C)

#### Pressure, max:

Valves: to 2500 psi (173 bar)

Pumps: to 500 psi (35 bar) rotary

#### Shaft speed:

4000 fpm (20 m/s)

#### pH range:

0-14 (except strong oxidizers)

See reverse for ordering information.

## ORDERING INFORMATION - HS-3000M

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"	7/8"	1"
Approx. (ft/lb)	140	50	30	21	13	10	8.5	7.0	6.0	4.0	3.4	2.2
Std pkg (lbs)	1	1	5	5	5	5	5	5	5	5/10	10	10

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

## AUTHORIZED DISTRIBUTOR

**Limitation of liability:** actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application. A.R. Thomson Group does not make or imply any warranty of suitability for a particular purpose and is not liable for any damages arising from the use of the information in this sheet.



Locations across Canada to serve you. For your nearest branch, please visit [www.arthomson.com](http://www.arthomson.com)

Copyright © A.R. Thomson Group - All rights reserved. v1.2