GORE® GFO® Fiber

Datasheet

Reliability and savings with packing made of 100% GORE® GFO® Fiber

Technical Specifications

Temperature Range: -240°C to +288°C (-400°F to +550°F)

Chemical Resistance: Chemically inert, with few exceptions, over the entire 0-14 pH range.

Stability: Able to withstand shaft speeds to 4,300 feet per minute (21.8 m/s).

Certification

The Gore Sealant Technologies Quality Management System is certified in accordance with ISO 9001.

Quality Assured

Through a global network of authorized braiders, the Seal of Assurance Program ensures that every fiber used to braid the packing is a GORE® GFO® Fiber. Look for the 100% GFO® seal on the box and print right on the packing – it's the only packing that is identified this way!

Typical Sizes of Finished Compression Packing

Braid Density
The yield figures below are representative of satisfactory braided packing made of 100% GORE® GFO® Fiber.

The data serves as a working guideline only and not as a minimum quality standard.

Braided Packing Cross Section		Yield	
in	mm	ft/lb	m/kg
1/8	3.18	80.00	53.64
3/16	4.76	38.00	25.48
1/4	6.35	23.00	15.42
5/16	7.94	15.00	10.06
3/8	9.50	11.00	7.38
7/16	11.11	8.00	5.36
1/2	12.70	6.00	4.02
9/16	14.29	5.00	3.35
5/8	15.88	4.00	2.68
11/16	17.46	3.20	2.14
3/4	19.05	2.80	1.88
7/8	22.26	2.00	1.34
1	25.40	1.50	1.00

Braid dimensional tolerances
Another significant factor affecting braided packing performance is the degree to which it is properly sized. Calendaring braid and die-forming rings are two effective ways that the manufacturer can produce packing that closely adheres to dimensional specifications. The Fluid Sealing Association recommends the following tolerances.

Cross Section	Tolerance
To 1/4 in	+/- 1/64 in
To 6 mm	+/- 0.4 mm
1/4 in to 1 in	+/- 1/32 in
6 mm to 25 mm	+/- 0.8 mm
Greater than 1 in	+/- 1/16 in

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Technical Information

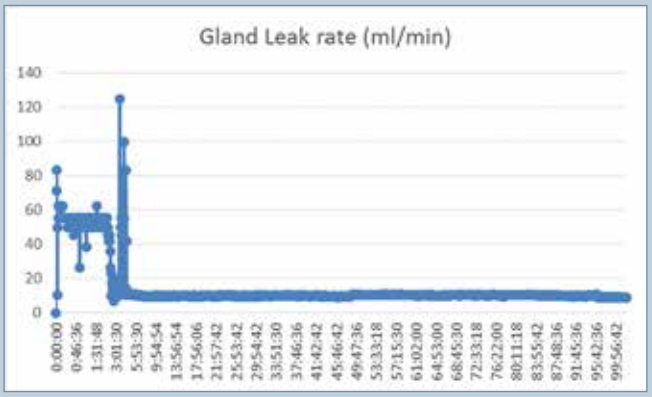
CETIM EN 16752 Test Results
Cetim has performed testing on packing made of 100% GORE® GFO® Fiber using the EN 16752 « Centrifugal pumps – Test procedure for seal packing ».

Test Protocol
- Ambient temperature
- Test medium: clean water
- 50 mm shaft diameter, 1500 & 3000 rpm
- Pressure: steady 0.6 MPa
- Loading: After 2 hours 1.8 kN, ‹1.5 kN 2nd & subsequent adjustments to 1.6–1.8 kN

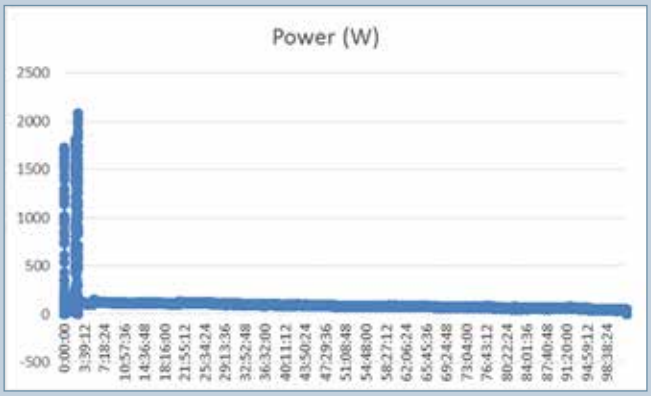
Shaft Leak Rate
After initial break in stabilization, 3000 rpm.

Power Consumption
After initial break in stabilization, 3000 rpm.

2.7 ml/min (5 adjustments)



Average 85.2 (W)



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Supplied by

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