

Fabreeka®-PTFE Bearing Pads



Fabreeka-PTFE bearing pads are manufactured using Fabreeka pad material with a Teflon® (PTFE) surface. The virgin Teflon is heat cured to the Fabreeka pad using a rigid, laminated thermoplastic (LTP). The rigid LTP layer prevents the PTFE from expanding/flowing under compressive load and rotation (also known as "cold flow"), as the bearing pad compresses.



Fabreeka-PTFE bearing pads are used for conditions where it is necessary to accommodate lateral movement (expansion). The PTFE provides a low friction sliding surface on the Fabreeka bearing pad, which distributes high compressive loads and accommodates rotations. In a structural bearing design, polished stainless steel is typically used as the smooth surface that the PTFE slides against.

Features and Attributes

- Commonly used in structural expansion bearings and pipe slides
- Bearing pad meets AASHTO 18.4.9.1, MIL-C-882 and most state DOT specifications
- PTFE (Teflon) surface provides low friction for expansion
- Accommodates lateral movement and rotation
- Allows for rotations up to 0.02 radians under high pressure

Physical Properties

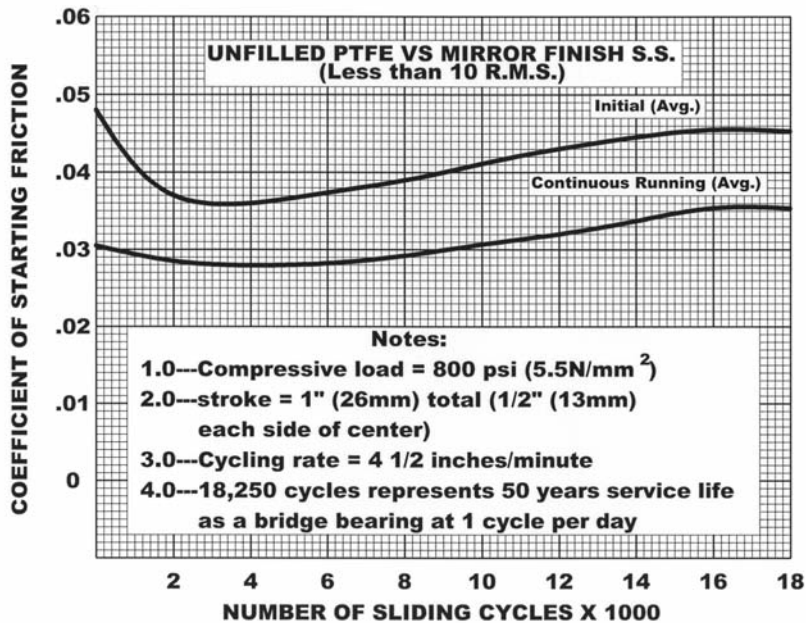
<u>PROPERTY</u>	<u>TEST</u>	<u>SPECIFICATION</u>
<i>Hardness at 78°:</i>	ASTM D2240	50-65 Durometer D
<i>Tensile Strength:</i>	ASTM D4894/4895	2,800 psi (min)
<i>Elongation:</i>	ASTM D4894/4895	200% (min)
<i>Deformation under Load:</i> 78°F - 2,000 psi (1/2" x 1/2" x 1/32")	ASTM D621	4% (max)
<i>Specific Gravity:</i>	ASTM D792	2.14 to 2.21

Note: Please refer to the Fabreeka Bearing Pad specification sheet #1000-005 for the physical properties of the Fabreeka pad.

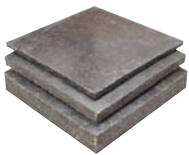
Specification for Fabreeka®-PTFE Bearing Pads

The *bearing pad* shall be manufactured of all new (unused) materials and composed of multiple layers of prestressed 50/50 cotton-polyester blend duck, 8.1 ounce per net square yard, duck warp count 50 ± 1 threads per inch and filling count 40 ± 2 threads per inch, impregnated and bound with a high quality, oil-impervious nitrile rubber compound, containing rot and mildew inhibitors and anti-oxidants, compounded into resilient pads of uniform thickness. The pads shall withstand compressive loads perpendicular to the plane of laminations of not less than 10,000 psi before breakdown.

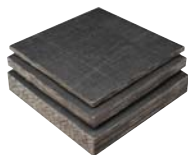
The *Polytetrafluorethylene (PTFE)* self-lubricating surface element shall be composed of 100 percent virgin (unfilled) polytetrafluorethylene polymer and bonded to a rigid confining substrate. The substrate shall limit the flow (elongation) of the confined PTFE to not more than 0.009" under load of 2,000 psi for 15 minutes at 78°F for a 2" x 3" test sample. The virgin (unfilled) PTFE shall have a thickness of not less than 1/32".



Additional Products for Building & Construction



SA-47 Bearing Pads



Fabreeka Bearing Pads
AASHTO 18.4.9.1



Structural Expansion Bearings



Flexible Drain Trough

World Headquarters

Fabreeka International, Inc.

PO Box 210
1023 Turnpike Street
Stoughton, MA 02072
Tel: (800) 322-7352
Tel: (781) 341-3655
Fax: (781) 341-3983
E-mail: info@fabreeka.com
www.fabreeka.com

Canada

Fabreeka Canada Ltd

Tel: (800) 322-7352
Fax: (781) 341-3983
E-mail: info@fabreeka.com
www.fabreeka.ca

Germany

Fabreeka GmbH Deutschland

Hessenring 13
D-64572 Büttelborn
Tel: 49 - (0)6152-9597-0
Fax: 49 - (0)6152-9597-40
E-mail: info@fabreeka.de
www.fabreeka.de

England

Fabreeka International, Inc.

8 - 12 Jubilee Way
Thackley Old Road, Shipley
West Yorkshire BD18 1QG
Tel: 44 - (0)1274 531333
Fax: 44 - (0)1274 531717
E-mail: info@fabreeka-uk.com
www.fabreeka.co.uk

Taiwan

Fabreeka International, Inc.

14F, No. 230 Huanjung East Road
Jung-Li City
320 Taiwan
Tel: (886) 3-451-7989
Fax: (886) 3-451-7992
E-mail: dchao@fabreeka.com
www.fabreeka.com.cn