H-LINER® S/S1 BUSHING

SELF LUBRICATING POLYMER BUSHINGS

These bushings, manufactured from a friction liner applied on a glass fiber structure, have excellent friction properties and improved wear resistance without external lubrication even on high loads.

Characteristics

The woven material of H-LINER® S/S1 is composed of a friction layer backed on a high mechanical resistance composite structure. The technical characteristics are much more higher than extruded plastics and don't require any greasing.

.

Advantages of H-LINER® S/S1:

- Maintenance free, self lubricating
- High loads
- Weight reduction
- Noise reduction

Conditions of use

Dynamic contact pressure max	S: 100 MPa S1: 140 MPa
Static contact pressure max	400 MPa
Velocity max	0,5 m/s
Temperature max	- 40 to 160 °C - 40 to 320°F
Linear expansion coefficient	7 E^{-6} / °C
Water absorption (24h)	0.16 %

Tolerances

Housing	H7- H8
Shaft	h7- h8

hef durferrit

H-LINER® S/S1 BUSHING

Applications:

- **Off-shore**
- **Handling equipment**
  – Harbor crane
- **Agriculture**
  – Front/rear hitches
  – Harvester
- **Agri-food**
  – Melt-extractor srew
- **Hydro power**
  – Wagon gates
  – Butterfly valves
  – Turbines (Wicket gate, Operating Ring, servomotor)
- **Railway industry**
  – Bogie
  – Braking system
  – Coupling system

Mating shafts

For optimal performance we recommend to use grinded pin with a roughness lower than Ra 0,4 µm and hardness higher than 400 HB. HEF DURFERRIT PEL® OX pin are particularly appropriated to work against H-LINER® bushings.

Assembly instructions

H-LINER® S/S1 bushings are best assembled by press fitting or by nitrogen mounting (Other assembly techniques can also be used, example: bonding).
For further information, please contact HEF Durferrit prior to use.

Availiable basic forms

Different forms are available with H-LINER® technology: bushings, spherical plain bearings, sliding plates,...

HEF has developped different solutions to fit customer specifications:

- sealing solution against abrasion
- high temperature components.

This solution is based on our experience in the field of tribology. Therefore, it should be tested and validated in your real working conditions before being adopted for permanent use.

hef durferrit

Mechanical Components Division:
7, rue Salvador Dali
42000 Saint-Etienne - France
Tél.: +33 (0) 4 77 46 53 90
Fax: +33 (0) 4 77 46 53 95
E-mail: bushings@hef.fr

HEF USA Headquarters:
2015 Progress Drive
Springfield, Ohio 45505
Phone: (937) 323-2556
Fax: (937) 323-5787
E-mail: sales@hefusa.net
Internet: www.hefusa.net