

Low friction at low cost...



...with high load capacity

Ames-LFC[®]

Double-layer material

Self-lubricating sintered bearings

Why Ames-LFC[®] ?

- **Better than Bronze for:**
 - Initial friction coefficient
 - Steady-state friction coefficient
 - Noise level
 - Material cost
- **Similar to Bronze for:**
 - Corrosion resistance

Ames-LFC-Z[®]

- **Minimum noise level**
- **Minimum friction**



Typical applications:

- Equipment requiring low electrical current consumption and/or low noise
- Equipment working in start-stop conditions, where the initial friction coefficient must be minimized
- Equipment working with stationary shaft and rotating bearing
- Examples:
 - Automotive: Fans / Sunroofs / Mirrors / Brakes / Starters
 - Domestic appliances
 - Industrial

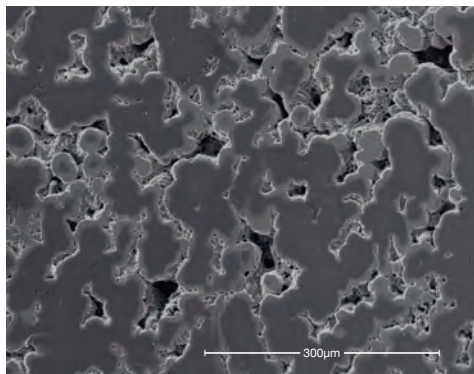


Ames-LFC[®]

Self-lubricating sintered bearings

Characteristics:

- Open porosity throughout inner diameter: oil feed assured

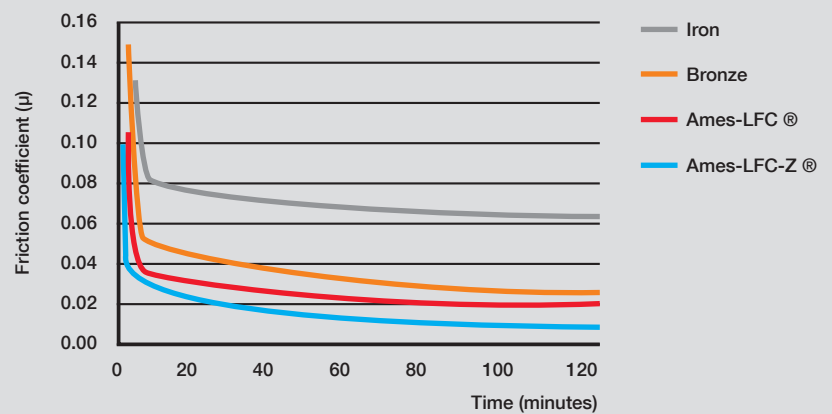


- Oil impregnation ratio > 90%
- Radial crushing strength > 200 MPa
- Corrosion resistance similar to Bronze

Life testing:

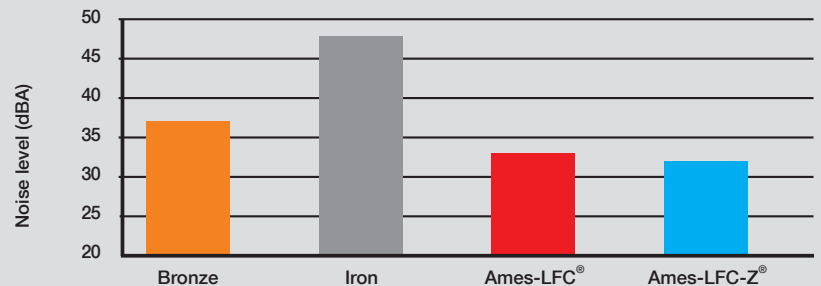
- > 1,000 hours at PV = 5 MPa·m/s, v = 1 m/s, linear and rotational, mineral oil 68 cSt
- > 50,000 hours in fan motor at 25°C (mineral oil)
- > 30,000 hours in fan motor at 120°C (synthetic oil)

Friction coefficient



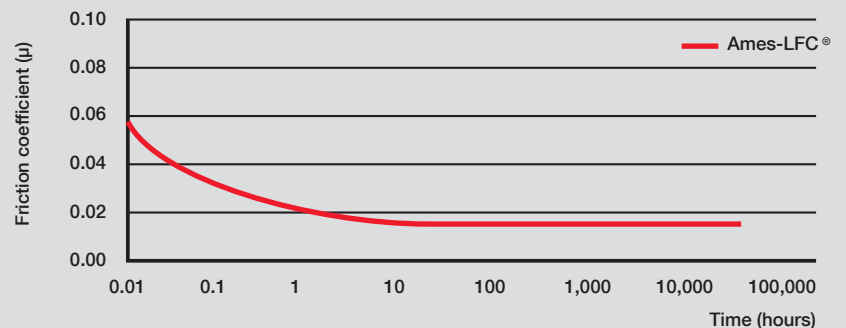
Test Conditions: PV = 1.8 MPa · m/s, v = 1 m/s, mineral lubricant ISO-VG-68

Noise level



Kitchen fan motor, v = 0.9 m/s, medium-high load, noise measured at 30 mm from motor stator

Durability



Test Conditions: PV = 1.8 MPa · m/s, v = 1 m/s, mineral lubricant ISO-VG-68



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