

Datasheet AS TEBRM80



AS TEBRM80 is a wrapped tin-bronze CuSn8P sliding bearing with holes through the bearing to enable forming an oil film. TEBRM80 has good anti-fatigue and load, anti-erosion and abrasion characteristics. The bearing is widely applied in conditions of heavier load and slow speed. It is a maintenance free dry sliding bearing according ISO 3547. The TEBRM80 bearing can be made cylindrical or with flange. It is also possible to order thrust washers, strips or other shapes on request. The TEBRM80 bearing has good sliding and wear behavior and is able to operate under high load. The bearing is a very economical solution for many applications. The TEBRM80 bearing has to be lubricated.

AS TEBRM80 is available from 10 mm up to 300 mm shaft diameter. Bigger sizes available on request.

AS TEBRM80 is used a material for bearings in for example agricultural machines, building and engineering machines.

- (1): Hardness rockwell: HRM.
- (2): Hardness rockwell: HRC.
- (3): Coefficient of friction dynamic: oil/grease.

| Material | |
|----------|--------|
| Material | Bronze |

| Availability | Unit | Value |
|-----------------------|------|-------------------------|
| Min. inside diameter | mm | 8 |
| Max. outside diameter | mm | 305 |
| Length standard | mm | 120 (longer on request) |

| Physical Properties | Test Standard | Unit | Value |
|------------------------------|---------------|-------------------|-------|
| Density | ASTM D792 | g/cm ³ | 8.8 |
| Max. swell in water at 20 °C | ASTM D570 | % | - |

| Mechanical Properties | Test Standard | Unit | Value |
|------------------------------|---------------|-------------------|-------------------|
| Compressive strength static | ASTM D695 | MPa | 100 |
| Compressive strength dynamic | ASTM D695 | MPa | 60 |
| Module of elasticity | ASTM D695 | MPa | - |
| Tensile strength | ASTM D3410 | MPa | 460 |
| Shear strength | ASTM D3410 | MPa | - |
| Impact strength | ASTM D256 | kJ/m ² | - |
| Hardness rockwell | ASTM D785 | HRM/HRC | 83 ⁽¹⁾ |

| Thermal Properties | Test Standard | Unit | Value |
|----------------------------------|---------------|------------------------|-------|
| Thermal expansion | ASTM D696 | *10 ⁻⁵ / °C | 18 |
| Min. working temperature | | °C | - |
| Max. working temperature | | °C | 150 |
| Intermittent working temperature | | °C | 160 |

| Friction Properties | Test Standard | Unit | Value |
|---------------------------------|---------------|-------------------------------------|-------------------------|
| Coefficient of friction dynamic | Pin-on-ring | Dry against steel | 0.05-0.2 ⁽³⁾ |
| Max. sliding speed | Pin-on-ring | m/s | 2 |
| Max. pv load dry | Pin-on-ring | MPa*m/s | - |
| Max. pv load oil lubricated | Pin-on-ring | MPa*m/s | - |
| Max. pv load regular greased | Pin-on-ring | MPa*m/s | 2.8 |
| Wear factor | Pin-on-ring | *10 ⁻⁹ m ² /N | - |