

SP

Bimetal Plain Bearings to Standard SAE 794



CHARACTERISTICS

- Bimetal bearing with steel backing and leaded bronze overlay
- For lubricated applications with plain sliding layer
- Suitable for oil and grease lubrication

AVAILABILITY

Bearing forms made to order: cylindrical bushes, thrust washers, sliding plates, customized bearing designs

APPLICATIONS

Industrial: Mechanical handling and lifting equipment, machine slides, hydraulic cylinders, hydraulic motors, pneumatic equipment, medical equipment, textile machinery, agricultural equipment, etc.



SP Technical Data

| Bearing Properties | | Imperial Units | Imperial Value | Metric Units | Metric Value |
|-----------------------------|-------------------------|----------------|----------------|-------------------------|--------------|
| General | | | | | |
| Maximum load, p | Static | psi | 44 000 | N/mm ² | 250 |
| | Dynamic | psi | 20 000 | N/mm ² | 120 |
| Operating temperature | Min | °F | - 40 | °C | - 40 |
| | Max greased | °F | 300 | °C | 150 |
| | Max oil lubricated | °F | 480 | °C | 250 |
| Oil Lubricated | | | | | |
| Maximum sliding speed, U | | fpm | 500 | m/s | 2.5 |
| Maximum pU factor | | psi x fpm | 80 000 | N/mm ² x m/s | 2.8 |
| Coefficient of friction | Greased | | 0.05 - 0.12 | | 0.05 - 0.12 |
| | Oiled | | 0.04 - 0.12 | | 0.04 - 0.12 |
| Recommendations | | | | | |
| Shaft surface roughness, Ra | Normal | µin | ≤ 32 | µm | ≤ 0.4 |
| Shaft surface hardness | Normal | HB | > 200 | HB | > 200 |
| | For longer service life | HB | > 350 | HB | > 350 |

| Operating Performance | |
|--------------------------|------|
| Dry | Poor |
| Oil lubricated | Good |
| Grease lubricated | Good |
| Water lubricated | Poor |
| Process fluid lubricated | Poor |

