

Features

- Standard Oilite®
 bearings are
 impregnated with
 highly refined mineral
 oil to ISO VG (SAE
 30) having a high
 viscosity index and
 containing anti oxidant, anti-rust and
 defoamant additives.
- A wide range of lubricants are available to meet specific requirements within a temperature range of -60°C to 200°C.
- Standard Oilite® oil retaining tin bronze is the generally specified material. It gives a good balance between strength, wear resistance, conformability, and durability in operation. Ideal in a wide variety of applications where self-lubricating properties are required over a long period of time.

RS PRO Oilite® Plain Bearing

RS Stock No.: 0594787



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

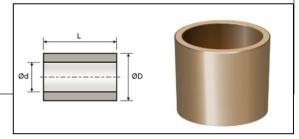
Product Description Page 1 of 3

Plain Bearings



RS PRO is offering range of Oilite® plain bearings – self-lubricating bearings that are made from metal alloys with pores that channel lubricants between the bearing itself and the shaft.

- Standard Oilite® bearings are impregnated with highly refined mineral oil to ISO VG (SAE 30) having a high viscosity index and containing anti-oxidant, anti-rust and defoamant additives.
- Lubricant: Shell Tellus S2 MX68
- Temperature range of -15°C to +75°C.
- Standard Oilite® oil retaining tin bronze is the generally specified material. It gives a good balance between strength, wear resistance, conformability, and durability in operation. Ideal in a wide variety of applications where self-lubricating properties are required over a long period of time.
- All dimensions and tolerances of our metric ranges conform to ISO 2795:1991
- Wide range of metric and imperial sizes
- Wide range of different types: Plain, Flanged



Specifications

Details

| Inner Diameter | 50 | Outer Diameter | 60 | Length | 70 |
|-----------------|-------------|----------------|----|--------|----|
| Tolerance Range | UK Standard | | | | |

Material Specification

| Structure | Oil impregrated sintered bronze* | | |
|--|---------------------------------------|-------------------------|-----|
| Max PV (N/mm² x m/s) | 1.8 | Max Static load (N/mm²) | 50 |
| Max Dynamic load (N/mm²) | 14 | Max Sliding speed (m/s) | 5 |
| Operating temperature (°C) | -60 to 200* *dependant on lubrication | Density (g/cm³) | 6.6 |
| Radial crushing strength (K Min M/mm²) | 160 | | |

Tolerances & Fittings (Metric)

| | Min | Max | Tolerance |
|-----------------------------|--------|--------|-----------|
| Inside Diameter | 50.009 | 50.048 | G8 |
| Outside Diameter | 60.053 | 60.099 | s8 |
| Overall Length | 69.770 | 70.230 | js13 |
| Recommended Housing Size | 60.000 | 60.030 | H7 |
| Shaft Diameter | 49.950 | 49.975 | 17 |
| Fitting Pin Size | 50.009 | 50.020 | m5 |
| Concentricity Max | 0.120 | 0.120 | IT10 |
| Inside Diameter When Fitted | 50.000 | 50.025 | H7 |

^{*} Below dimensions in mm

Plain Bearings

