

## 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.: 0558457

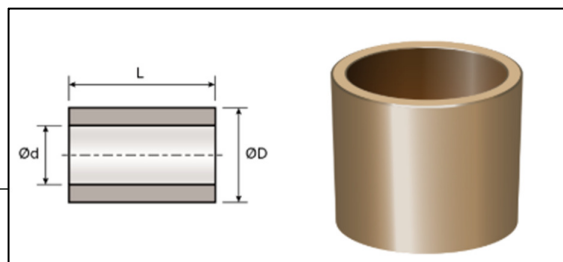


RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

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

\* Below dimensions in mm



## Specifications

### Details

|                 |             |                |    |        |    |
|-----------------|-------------|----------------|----|--------|----|
| Inner Diameter  | 45          | Outer Diameter | 55 | Length | 35 |
| Tolerance Range | UK Standard |                |    |        |    |

### Material Specification

|                                                     |                                          |                                      |     |
|-----------------------------------------------------|------------------------------------------|--------------------------------------|-----|
| Structure                                           | Oil impregnated sintered bronze*         |                                      |     |
| Max PV (N/mm <sup>2</sup> x m/s)                    | 1.8                                      | Max Static load (N/mm <sup>2</sup> ) | 50  |
| Max Dynamic load (N/mm <sup>2</sup> )               | 14                                       | Max Sliding speed (m/s)              | 5   |
| Operating temperature (°C)                          | -60 to 200*<br>*dependant on lubrication | Density (g/cm <sup>3</sup> )         | 6.6 |
| Radial crushing strength (K Min M/mm <sup>2</sup> ) | 160                                      |                                      |     |

### Tolerances & Fittings (Metric)

|                             | Min    | Max    | Tolerance |
|-----------------------------|--------|--------|-----------|
| Inside Diameter             | 45.009 | 45.048 | G8        |
| Outside Diameter            | 55.053 | 55.099 | s8        |
| Overall Length              | 34.805 | 35.195 | js13      |
| Recommended Housing Size    | 55.000 | 55.030 | H7        |
| Shaft Diameter              | 44.950 | 44.975 | f7        |
| Fitting Pin Size            | 45.009 | 45.020 | m5        |
| Concentricity Max           | 0.120  | 0.120  | IT10      |
| Inside Diameter When Fitted | 45.000 | 45.025 | H7        |