

### **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.: 0594784



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.

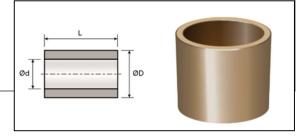
Product Description Page 1 of 3

## **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  | 45          | Outer Diameter | 55 | Length | 75 |
|-----------------|-------------|----------------|----|--------|----|
| 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             | 45.009 | 45.048 | G8        |
| Outside Diameter            | 55,053 | 55.099 | s8        |
| Overall Length              | 74.770 | 75.230 | js13      |
| Recommended Housing Size    | 55.000 | 55.030 | Н7        |
| Shaft Diameter              | 44.950 | 44.975 | 17        |
| Fitting Pin Size            | 45.009 | 45.020 | m5        |
| Concentricity Max           | 0.120  | 0.120  | IT10      |
| Inside Diameter When Fitted | 45.000 | 45.025 | H7        |

<sup>\*</sup> Below dimensions in mm

# **Plain Bearings**

