

## 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.: 0518189



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  | 20          | Outer Diameter | 28 | Length | 30 |
| 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*                      | Density (g/cm <sup>3</sup> )         | 6.6 |  |
|                                                     | *dependant on lubrication        |                                      |     |  |
| Radial crushing strength (K Min M/mm <sup>2</sup> ) | 160                              |                                      |     |  |

### Tolerances & Fittings (Metric)

|                             | Min    | Max    | Tolerance |
|-----------------------------|--------|--------|-----------|
| Inside Diameter             | 20.007 | 20.028 | G7        |
| Outside Diameter            | 28.035 | 28.056 | s7        |
| Overall Length              | 29.835 | 30.165 | js13      |
| Recommended Housing Size    | 28.000 | 28.021 | H7        |
| Shaft Diameter              | 19.959 | 19.980 | f7        |
| Fitting Pin Size            | 20.008 | 20.017 | m5        |
| Concentricity Max           | 0.052  | 0.052  | IT9       |
| Inside Diameter When Fitted | 20.000 | 20.021 | H7        |