

## 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.
- 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® Flanged Bearing

RS Stock No.: 0528054



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  | 12          | Outer Diameter   | 15 | Length          | 20 |
| Tolerance Range | UK Standard | Flange Thickness | 3  | Flange Diameter | 21 |

### 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             | 12.006 | 12.024 | G7        |
| Outside Diameter            | 15.028 | 15.046 | s7        |
| Overall Length              | 19.835 | 20.165 | js13      |
| Flange Thickness Tolerance  | 2.930  | 3.070  | js13      |
| Flange Diameter Tolerance   | 20.835 | 21.165 | js13      |
| Recommended Housing Size    | 15.000 | 15.018 | H7        |
| Shaft Diameter              | 11.966 | 11.984 | f7        |
| Fitting Pin Size            | 12.007 | 12.015 | m5        |
| Concentricity Max           | 0.043  | 0.043  | IT9       |
| Inside Diameter When Fitted | 12.000 | 12.018 | H7        |