

## 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.: 0529049



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  | 18          | Outer Diameter   | 24 | Length          | 18 |
| Tolerance Range | UK Standard | Flange Thickness | 3  | Flange Diameter | 30 |

### 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             | 18.006 | 18.028 | G7        |
| Outside Diameter            | 24.035 | 24.056 | s7        |
| Overall Length              | 17.865 | 18.135 | js13      |
| Flange Thickness Tolerance  | 2.930  | 3.070  | js13      |
| Flange Diameter Tolerance   | 29.835 | 30.165 | js13      |
| Recommended Housing Size    | 24.000 | 24.021 | H7        |
| Shaft Diameter              | 17.966 | 17.984 | f7        |
| Fitting Pin Size            | 18.007 | 18.015 | m5        |
| Concentricity Max           | 0.052  | 0.052  | IT9       |
| Inside Diameter When Fitted | 18.000 | 18.018 | H7        |