

## 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.
- Washer provides self-lubricating thrust surfaces, especially in applications where assembly does not lend itself to the use of a flanged bearing. Alternatively, they can provide a second thrust surface at the non-flanged end of a bearing.
- 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® Washer

RS Stock No.: 0518152



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.

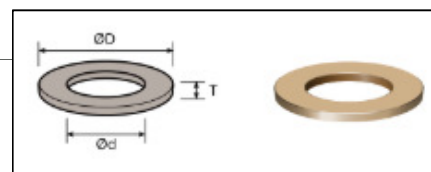
RS PRO is offering range of Oilite® plain bearings - self-lubricating bearings that are made from metal alloys with pores that channel lubricants between the bearing itself and the shaft.

- 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; Washers

Oilite® Washer provides self-lubricating thrust surfaces, especially in applications where assembly does not lend itself to the use of a flanged bearing. Alternatively, they can provide a second thrust surface at the non-flanged end of a bearing.

In thrust applications PV should not exceed  $0.36 \text{ N/mm}^2 \times \text{m/s}$ . Surface velocity (m/s) calculated on mean diameter of thrust face and pressure ( $\text{N/mm}^2$ ) on total thrust area.

\* Below dimensions in mm



## Specifications

### Details

|                 |                 |                |     |           |       |
|-----------------|-----------------|----------------|-----|-----------|-------|
| Inner Diameter  | 2.25            | Outer Diameter | 3.5 | Thickness | 0.125 |
| Tolerance Range | Imperial (Inch) |                |     |           |       |

### Material Specification

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

### Tolerances & Fittings (Imperial)

|                     | Min   | Max   | Tolerance |
|---------------------|-------|-------|-----------|
| Inside Diameter     | 2.248 | 2.252 |           |
| Outside Diameter    | 3.498 | 3.503 |           |
| Thickness Tolerance | 0.125 | 0.130 |           |