



Magna SW B Range

Slideway Oil

Description

The Castrol Magna™ SW B Range (previously called Magnaglide™ B grades) are premium slideway lubricants for machine tools.

They are based on highly refined mineral oils and additives to give controlled frictional characteristics in guideway sliding conditions.

Application

The Magna SW B oils are recommended for the high performance lubrication of slideways on machine tools. They have excellent frictional characteristics, high adhesivity, and high film strength, so that they can be used in conditions of high loads and low sliding speeds on both vertical and horizontal guideways.

Furthermore, they can be used for lead screw and nut systems, gears of feed mechanisms and oil lubricated milling heads. The Magna SW B oils meet the criteria of the Schmidt-Coburg friction and demulsibility tests, thus the range has excellent water wash off characteristics.

Advantages

Compared to conventional slideway oils Magna SW B offers the following advantages:-

- Accurate sliding movement leading to enhanced work piece surface finish.
- Excellent protection of slideways for maximum service life of machinery.
- Good wash off characteristics.
- Good compatibility with known construction materials of slideways.
- Conforms to Schmidt-Coburg requirements for friction and demulsibility properties.

Typical Characteristics

| Name | Method | Units | SW B 32 | SW B 68 | SW B 100 | SW B 150 | SW B 220 |
|--|------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|
| Appearance | Visual | - | Clear and Bright | Clear and Bright | Clear and Bright | Clear and Bright | Clear and Bright |
| Density @ 15°C / 59°F | ISO 12185 / ASTM D4052 | kg/m ³ | 880 | 880 | 880 | 880 | 890 |
| Kinematic Viscosity @ 40°C / 104°F | ISO 3104 / ASTM D445 | mm ² /s | 32 | 70 | 98 | 150 | 220 |
| Kinematic Viscosity @ 100°C / 212°F | ISO 3104 / ASTM D445 | mm ² /s | 5.4 | 8.9 | 11.1 | 14.8 | 19 |
| Viscosity Index | ISO 2909 / ASTM D2270 | - | 102 | 100 | 98 | 98 | 98 |
| Flash Point - open cup method | ISO 2592 / ASTM D92 | °C/°F | 210/410 | 232/450 | 236/457 | 238/460 | 266/511 |
| Pour Point | ISO 3016 / ASTM D97 | °C/°F | -36/-33 | -33/-27 | -30/-22 | -27/-17 | -24/-11 |
| Copper corrosion (3 hrs @ 100°C / 212°F) | ISO 2160 / ASTM D130 | Rating | 1b | 1b | 1b | 1b | 1b |
| Rust test - distilled water (24 hrs) | ISO 7120 / ASTM D665A | - | Pass | Pass | Pass | Pass | Pass |
| FZG Gear Scuffing test - A/8.3/90 | ISO 14635-1 | Failure Load Stage | 12 | 12 | 12 | 12 | 12 |

Subject to usual manufacturing tolerances.

This product was previously called Magnaglide B Range. The name was changed in 2015.

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