



INDUSTRIAL AXEL



DESCRIPTION

AXEL series is a machine tool and slideways oil, formulated with highly refined base oils and carefully selected anti-wear, anti-corrosion and anti-foam additives. AXEL series contains a special "tackiness" agent that prevents sticking or chattering. It combines the adhesive and protective properties of a slideway lubricant with the anti-wear properties of a hydraulic oil. This multifunctional nature allows the user to rationalise machine lubes inventory.

APPLICATIONS

The series can be applied either by centralized lubrication or manually. AXEL is also suitable for all those applications requiring an oil with adhesive characteristics, like chains, cables, etc. The grade 68 is particularly suitable for the use in small to medium- sized machine tools and horizontal slideways. The heavier grade is recommended for large, heavily-loaded machine tools and vertical slideways .

CHARACTERISTICS-BENEFITS

| CHARACTERISTICS | BENEFITS |
|--|---|
| Excellent stick-slip performance. | Allows smooth tool movement. |
| Outstanding thermal stability. | Prolongs oil 's life. |
| Strong adhesive properties. | Prevent the oil from being squeezed out of the slide ways, especially on vertical surfaces. |
| Protection against wear and corrosion. | Reduced wear rates. Superior protection to pumps of hydraulic system. |

PHYSICAL-CHEMICAL CHARACTERISTICS

| AXEL | METHOD | ISO 68 | ISO 220 |
|---|------------|--------|---------|
| Density at 15°C, g/cm ³ | ASTM D1298 | 0,882 | 0,892 |
| Viscosity, Kinematic (cSt) 40 ⁰ C | ASTM D445 | 68 | 220 |
| Viscosity, Kinematic (cSt) 100 ⁰ C | ASTM D445 | 9,1 | 18,9 |
| Viscosity index | ASTM D2270 | 109 | 96 |
| Flash point, COC, °C | ASTM D92 | 218 | 250 |
| Pour point, °C | ASTM D97 | -18 | -15 |
| Emulsion test, min | ASTM D1401 | 10 | 10 |
| Copper corrosion | ASTM D130 | 1a | 1a |

The above mentioned characteristics represent mean values.

SPECIFICATIONS

DIN 51524 Part 2 HLP , ISO 6743-13