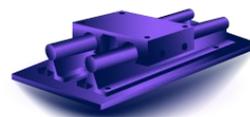


TECHNICAL PRODUCT SHEET

AXEL

ISO 68, 220, 320



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 rationalize machine lubes inventory.

APPLICATIONS

AXEL 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. 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.

SPECIFICATIONS

DIN	51524 Part 2 HLP
ISO	6743-13

PROPERTIES

AXEL series delivers excellent stick-slip performance, outstanding thermal stability, and strong adhesive properties. It provides reliable protection against wear and corrosion, ensuring smooth operation and extended component life under demanding conditions.

BENEFITS

AXEL series ensures smooth tool movement and prolongs oil life while preventing oil from being squeezed out of slideways, even on vertical surfaces. It reduces wear rates, provides superior protection to hydraulic system pumps, and maintains reliable lubrication for extended equipment performance.



TECHNICAL PRODUCT SHEET

PHYSICAL-CHEMICAL CHARACTERISTICS

AXEL	METHOD	ISO 68	ISO 220	ISO 320
Density at 15°C, g/cm ³	ASTM D4052	0.881	0.889	0.896
Viscosity, Kinematic (cSt) 40°C	ASTM D445	68	220	320
Viscosity, Kinematic (cSt) 100°C	ASTM D445	9.1	18.9	24.0
Viscosity index	ASTM D2270	109	96	95
Flash point, COC, °C	ASTM D92	218	250	268
Pour point, °C	ASTM D97	-18	-15	-15
Copper corrosion	ASTM D 130	1a	1a	1a
Demulsibility, min.	ASTM D1401	10	20	20

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

