

Way Lubricant

Machine Tool Slideway Lubricant



Product description

Way Lubricant is a high quality, machine tool slideway lubricant formulated from highly refined mineral oil, with EP, friction modifier, rust and corrosion inhibitors and tackiness additives, together with good demulsibility properties for coolant separation.

Customer benefits

- **Smooth, chatter-free, accurate operation**
Special friction modifier provides high lubricity to reduce friction and drag which can cause stick-slip and machine tool chatter, adversely affecting surface finish on machined pieces. Tackiness additive provides a high strength, thick oil film that enables accurate table positioning.
- **Protects metal surfaces**
EP additive system produces a protective film under heavily loaded conditions to prevent wear and scoring of slideways and guides. Rust and corrosion inhibitor protects machine components.
- **Stays in place**
Special tackiness agent prevents fluid from draining away from lubricated surfaces, particularly on vertical ways. Tackiness and high film strength minimizes squeeze-out of the lubricant on heavily loaded ways, and prevents fluid wash out by emulsifiable cutting fluids.
- **Enhances coolant bath life**
Excellent demulsibility and coolant separability properties enable rapid separation of the way oil from the coolant reducing the tendency of bacteria growth from oil contamination.
- **Combined hydraulic/slideway application**
Lubricant inventory is reduced where an ISO 32 grade is required for use as way lubricant and machine tool hydraulic oil.

Applications

Can include:

- Machine tool slideways and guides:
 - Combined slideway/machine tool hydraulic systems like those in lathes, planers, shapers, drilling and tapping machines, etc.,
 - Some Horizontal slideways requiring lighter VG 32 oils
- Other industrial applications requiring an adhesive, corrosion inhibited lubricant with EP properties

Approvals, performance and recommendations

Meets the requirements for:

- Cincinnati Machine Specification P-53 Combination Hydraulic and Way Oil
- Cincinnati Machine Stick-Slip Procedure

Service considerations

Machine tool carriages typically operate on slideways under high loads and slow speeds. The carriages must be able to start in motion quickly and smoothly and then continue in motion at a constant speed. Excessive frictional resistance at start-up compared to friction resistance while in motion can cause undesirable erratic or jumpy motion, which is commonly referred to as machine tool chatter or stick-slip. Effective way oils must have a low stick-slip value (static coefficient of friction to kinematic coefficient of friction ratio) to prevent stick-slip problems.

Way oils must also possess tackiness to prevent run-off of the lubricant, particularly on vertical ways.

Extreme pressure properties are also required to prevent scoring of slideways and guides.

Way Lubricant

Machine Tool Slideway Lubricant



Typical test data

WAY LUBRICANT	TEST METHOD	RESULTS
ISO Grade		32
Product Code		540422
AGMA Grade		0
Kin. Viscosity		
cSt @ 40°C	ASTM D445	33.6
cSt @ 100°C	ASTM D445	5.8
Viscosity Index	ASTM D2270	115
Pour Point, °C	ASTM D97	-18
Flash Point, COC, °C	ASTM D92	220

1508

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

This document includes registered and unregistered trademarks, service marks, logos and trade names owned by Chevron Intellectual Property LLC and/or its affiliates, or owned by third parties whose products, services or standards are referred to. You must not use any trademark that appears in this document without permission from the relevant owner.

[Visit Product Information Center >](#)

Way Lubricant/MEA/CHV/PDSv1_05/2024



Chevron company product

© 2024 Chevron Lubricants; Africa, Middle East and Pakistan. All Rights Reserved.