



# Way Lubricant X

## Machine Tool Slideway Lubricant

Product Data Sheet

### 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.

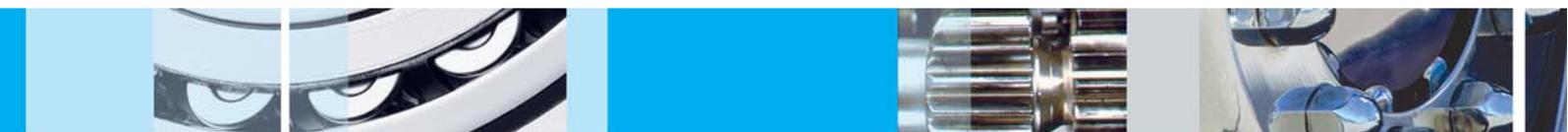
### Applications

Can include;

- Machine tool slideways and guides:
  - Combined slideway/machine tool hydraulic systems (ISO 32)
  - Horizontal slideways (ISO 68)
  - Light-to-moderate applications (ISO 68)
  - Vertical slideways (ISO 220)
  - More severe applications (ISO 220)
- Other industrial applications requiring an adhesive, corrosion inhibited lubricant with EP properties

### Product features:

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



## Product specifications

WAY LUBRICANT X KEY PROPERTIES			
ISO Grade	32	68	220
Product Code	540472	540473	540475
Flash Point, COC, °C	200	215	234
Pour Point, °C	-21	-21	-18
Viscosity,			
mm <sup>2</sup> /s @ 40°C	32.5	68.0	210
mm <sup>2</sup> /s @ 100°C	5.43	9.8	19.4
Viscosity Index	112	110	105

1201

## Performance standards

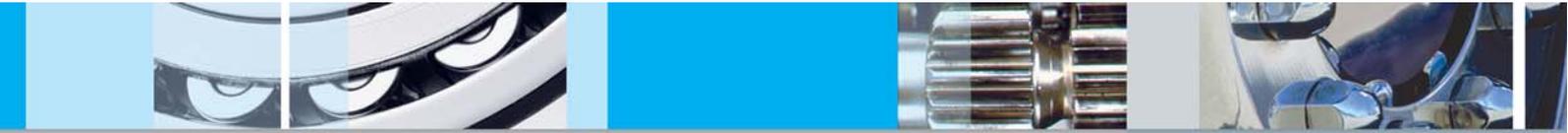
Meets the Requirements for;

- Cincinnati Machine Specification P-53 Combination Hydraulic and Way Oil (ISO 32)
- Cincinnati Machine Specification P-47 Heavy-Medium Way Oil (ISO 68)
- Cincinnati Machine Specification P-50 Heavy Way Oil (ISO 220)
- Cincinnati Machine Stick-Slip Procedure (ISO 32, 68 and 220)

## 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:  
[www.chevronlubricants.com](http://www.chevronlubricants.com).



## Way Lubricant X

### 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.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:  
**Chevron Lubricants**  
- Asia Pacific