

Product Data Sheet



NATIONAL | WAY OILS

Product Description

NATIONAL Way Oils (slideway oils) are designed to reduce friction and drag, stick-slip, and machine tool chatter. Formulated with select base stocks combined with advanced additive technology that provides excellent benefits such as superb antiwear, EP performance, demulsibility characteristics, thermal, and oxidation stability.

Industry and OEM Specifications

- Cincinnati Machine Specification P-47, P-50
- DIN 51524 part II

Applications

Available in three ISO grade viscosities¹, NATIONAL Way Oils meet performance requirements for horizontal slideways and light-to-moderate applications (ISO 32, 68) and vertical slideways with more severe applications (ISO 220).

Features

- Proven friction modifiers reduce slideway friction, drag, stick-slip, and machine tool chatter, improving workpiece surface finish
- Outstanding demulsibility properties prevent wash out by other fluids and provide rapid separation from coolants
- Superior additives enable accurate table positioning (tack) and ensures that the lubricant stays in place even on vertical slideways
- Anti-rust and corrosion additives increase equipment and hydraulic system service life
- Excellent EP performance creates an oil film that protects under heavy load conditions

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



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Technical Data

ISO Grade	ASTM	32	68	220
Product Number		07-123032	07-123068	07-123220
SDS Number	S030			
Viscosity @ 40°C, cSt	D445	29.90	63.16	231.6
Viscosity @ 100°C, cSt	D445	5.51	8.55	20.09
Viscosity Index	D2770	123	107	100
Specific Gravity @ 60°F	D4052	0.8531	0.8678	0.8836
Pour Point, °C	D5950	-18	-15	-15
Color ASTM	D1500	L1.0	L1.5	L3.5
Demulsibility	D2711	41-39-0 (5 min)	40-37-3 (10 min)	40-37-3 (10 min)
Copper Corrosion	D130	1B	1B	1B
Tackiness, String length ²	LAB-39	26	28	27

1. Always follow your operator's manual for recommended viscosity grade and confirm that the product selected is consistent with the original equipment manufacturer's recommendation.
2. In house procedure using the syphon method

The recommended shelf life for these oils is typically 24 months from manufacturing date when stored properly in the original sealed containers.

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