

Product Data Sheet

NA-LUBE[®] EP-5415



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NA-LUBE EP-5415 is a light colored, low odor sulfurized olefin/fatty oil with excellent extreme pressure properties and outstanding thermal and hydrolytic stability.

CHEMICAL

COMPOSITION: Sulfurized olefin/fatty oil.

APPEARANCE: Brown clear liquid.

TYPICAL

PROPERTIES:	Sulfur Content	15.0%
	Active Sulfur Content (ASTM D 1662)	4.0%
	Color (ASTM D 1500 neat)	3.0
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	290 mm ² /s (cSt)
	Density @ 15°C (ASTM D 941)	0.977 g/ml
	Weight Per Gallon @ 25°C	8.32 lbs.
	Pour Point	-5°C (20 °F)
	Flash Point, COC (ASTM D 92, DIN 51 376)	206°C (402°F)

Note: The above analytical data are not specifications.

		<u>Typical Treat Levels</u>
APPLICATIONS:	Metalworking Fluids	4.0% - 15.0%
	Water Miscible Metalworking Concentrates	5.0% - 20.0%
	Industrial Gear Oils	1.0% - 2.0%
	Slideway Oils	1.0% - 5.0%
	Greases	2.0% - 5.0%

NA-LUBE EP-5415 is a unique low odor, light colored sulfur carrier based on olefin/fatty oil chemistry. **NA-LUBE EP-5415** provides outstanding thermal and hydrolytic stability when compared to conventional low odor, light color sulfur carriers. Because of its novel chemistry **NA-LUBE EP-5415** is well suited for machining non-ferrous metals. **NA-LUBE EP-5415** provides excellent extreme pressure and antiwear properties when used in combination with appropriate antiwear additives in mineral oils and greases. **NA-LUBE EP-5415** is highly suitable for heavy duty drilling and cutting operations. **NA-LUBE EP-5415**'s unique chemistry gives it outstanding solubility characteristics in naphthenic and solvent refined Group I base oils and Group II base oils. When used in combination with ash-containing or ashless phosphorus-type antiwear and lubricity additives, **NA-LUBE EP-5415** is an outstanding alternative to chlorinated paraffins in metalworking fluids.

(see reverse side)

NA-LUBE[®] EP-5415

- ADVANTAGES:**
- * **Good extreme pressure properties**
 - * **Outstanding thermal and hydrolytic stability**
 - * **Light color, low odor**
 - * **Compatible with ZnDTP's**
 - * **Usable with ferrous and non-ferrous metals**
 - * **Easy handling, low viscosity**
 - * **Good solubility properties in Group I and Group II base oils**

TEST RESULTS: Technical reports are available from King Industries and can be requested by contacting the offices shown below.

SOLUBILITY: Soluble in petroleum and synthetic lubricant base stocks and most common solvents. Insoluble in water. However, it is recommended to verify the solubility in the base oils used and the compatibility with other additives.

STANDARD PACKAGING: 419 lbs (190 kg) closed head drum.

STORAGE CONDITIONS: Store in a cool, dry place away from any direct source of heat and moisture. Maximum recommended storage temperature: 30°C (86°F)

SHELF LIFE: Best if used within 1 year from the date of manufacture.

HANDLING: Avoid all personal contact. Observe good personal hygiene. For additional information, it is advised to consult the Material Safety Data Sheet (MSDS) for **NA-LUBE EP-5415**.

REGISTRATION: Please refer to Section 15 of the Material Safety Data Sheet for information.

For Samples or Technical Service, contact King Industries or your King representative.

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