

# Product Data Sheet

## NA-LUBE<sup>®</sup> AW-6010



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**NA-LUBE AW-6010** is an ashless light colored antiwear additive.

### CHEMICAL

**COMPOSITION:** Amine salts of aliphatic phosphoric acid esters.

**APPEARANCE:** Light yellow liquid.

### TYPICAL

<b>PROPERTIES:</b>	Nitrogen Content	4.8%
	Phosphorus Content	5.3%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	65 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	7 mm <sup>2</sup> /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	0.92 g/ml
	Weight Per Gallon @ 25°C	7.61 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	82°C (180°F)

Note: The above analytical data are not specifications.

		<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b>	Honing Oils	0.25% - 0.50%
	Broaching	0.25% - 2.00%
	Grinding Oils	0.25% - 0.50%
	Deep-hole Drilling Oils	0.25% - 3.00%
	Industrial and Automotive Gear Oils	0.25% - 1.00%
	Ashless Hydraulic Oils	0.25% - 0.50%
	Rust and Oxidation Oils	0.25% - 0.50%

**NA-LUBE AW-6010** is a metal free antiwear and EP additive for formulating ashless lubricants. The use of **NA-LUBE AW-6010** will help reduce tool wear and can enhance surface finish of the work piece. **NA-LUBE AW-6010** combined with a light colored, low odor sulfur carrier, such as NA-LUBE EP-5216, is a suitable alternative to chlorinated paraffins for use in metalworking fluids.

**ADVANTAGES:**

- \* **Low treat levels**
- \* **Good antiwear properties with no detrimental FZG performance**
- \* **Light color**
- \* **Easy to handle**
- \* **Excellent solubility properties**

(see reverse side)

# NA-LUBE<sup>®</sup> AW-6010

**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:** 400 lbs (181 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: 46°C (115°F)

**SHELF LIFE:** Best if used within 12 months 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 AW-6010**.

**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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