

# Product Data Sheet

## NA-LUBE<sup>®</sup> AW-6220

SAMPLE REQUEST



Science Road  
Norwalk, CT 06852  
(800) 431-7900  
Fax: (203) 866-0425  
E-Mail: lad@kingindustries.com

**NA-LUBE AW-6220** is an ashless antiwear additive with excellent rust and corrosion inhibition and yellow metal deactivation properties.

### CHEMICAL

**COMPOSITION:** Proprietary preparation of amine phosphate and heterocyclic derivative chemistry.

**APPEARANCE:** Light yellow viscous liquid.

### TYPICAL

<b>PROPERTIES:</b>	Nitrogen Content	5.7%
	Phosphorus Content	4.5%
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	240 mm <sup>2</sup> /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	14 mm <sup>2</sup> /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	0.94 g/ml
	Weight Per Gallon @ 25°C	7.8 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	110°C (230°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
<b>APPLICATIONS:</b> Metalworking Fluids	0.25% - 3.00%
Honing Oils	0.25% - 0.50%
Grinding Oils	0.25% - 0.50%
Deep-hole Drilling Oils	0.25% - 2.50%
Industrial and Automotive Gear Oils	0.25% - 1.00%
Ashless Hydraulic Oils	0.25% - 0.50%
Compressor Oils	0.25% - 0.50%
Greases	0.25% - 2.00%

**NA-LUBE AW-6220** is an ashless antiwear additive with excellent rust, corrosion, and yellow metal deactivation properties. **NA-LUBE AW-6220** is ideally suited for formulating ashless lubricants that require yellow metal, rust and corrosion protection while providing excellent antiwear and EP protection. **NA-LUBE AW-6220** combined with a light colored, low odor sulfur carrier, such as NA-LUBE<sup>®</sup> EP-5216, is a suitable alternative to chlorinated paraffins for use in metalworking fluids.

**ADVANTAGES:**

- \* **Low treat levels**
- \* **Low odor, light color**
- \* **Excellent solubility properties**

(see reverse side)

# NA-LUBE<sup>®</sup> AW-6220

**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 Safety Data Sheet (SDS) for **NA-LUBE AW-6220**.

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

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

King Industries, Inc.  
Science Road  
Norwalk, CT 06852-0588  
Tel: 203-866-5551  
Fax: 203-866-0425  
E-mail: LAD@kingindustries.com

King Industries International, Inc.  
Science Park 402,  
1098 XH Amsterdam  
The Netherlands  
Tel: +31-20-723-1970  
E-mail: info@kingintl.nl

NA-LUBE<sup>®</sup> is a registered trademark of King Industries, Inc.

v:\lad\TechnicalLiterature\CumtTDS\NALUBE\AW6220\_04  
Revision date: 06 JUNE 2014

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. Such testing has not necessarily been done by King Industries, Inc. ("King"). The facts, recommendations and suggestions herein stated are believed to be reliable; however, no guaranty or warranty of their accuracy is made. EXCEPT AS STATED, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. KING SHALL NOT BE HELD LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. Any statement inconsistent herewith is not authorized and shall not bind King. Nothing herein shall be construed as a recommendation to use any product(s) in conflict with patents covering any material or its use. No license is implied or granted under the claims of any patent. Sales or use of all products are pursuant to Standard Terms and Conditions stated in King sales documents.