

Product Data Sheet

NA-LUBE[®] AO-155



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

NA-LUBE AO-155 is a liquid aminic antioxidant for synthetic and mineral oil based lubricants and greases.

CHEMICAL

COMPOSITION: Mixed, para oriented, styrenated diphenylamine derivatives.

APPEARANCE: Clear brown viscous liquid.

TYPICAL

PROPERTIES:	Nitrogen Content	3.5%
	Color (ASTM D 1500 neat)	2.0
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	1650 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	20 mm ² /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	1.09 g/ml
	Weight Per Gallon @ 25°C	9.07 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	230 °C (446°F)

Note: The above analytical data are not specifications.

	<u>Typical Treat Levels</u>
APPLICATIONS: Hydraulic Fluids	0.2% - 0.5%
Turbine Oils	0.2% - 0.5%
Circulating Oils	0.2% - 0.5%
Greases	0.2% - 0.6%
Compressor and Paper Machine Oils	0.2% - 0.5%
Industrial and Automotive Gear Oils	0.2% - 0.5%

NA-LUBE AO-155 has low volatility compared to other aminic antioxidants due to its sterically hindered aminic group. **NA-LUBE AO-155** provides excellent oxidation stability to synthetic and mineral oil based lubricants and greases. **NA-LUBE AO-155** is a readily soluble liquid product which has good non-ferrous metal compatibility and is highly compatible with other commonly used additives. **NA-LUBE AO-155** in combination with NA-LUBE AO-242 and yellow metal deactivators provides excellent oxidation stability to lubricants and greases.

- ADVANTAGES:**
- * High nitrogen content
 - * High color stability
 - * Good UV stability
 - * Non-ferrous metal compatibility
 - * Low volatility due to its unique alkyl groups

(see reverse side)

NA-LUBE[®] AO-155

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: 463 lbs (210 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 2 years 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 AO-155**.

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.

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.
Noordkade 64, 2741 EZ Waddinxveen
The Netherlands
Tel: +31-182-631360
Fax: +31-182-621002
E-mail: info@kingintl.nl

NA-LUBE[®] is a registered trademark of King Industries, Inc.

v:\lad\TechnicalLiterature\CumtTDS\NALUBE\AO155_02
Revision date: 5 May 2005

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.