

Product Data Sheet

NA-LUBE[®] AO-142



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



Nonfood Compounds
(Category Code: HX-1)
(Registration #140584)

SAMPLE REQUEST

NA-LUBE AO-142 is a liquid diphenylamine based antioxidant for synthetic and mineral oil based lubricants and greases.

CHEMICAL

COMPOSITION: Butylated, octylated diphenylamine.

APPEARANCE: Yellow to reddish-brown viscous liquid.

TYPICAL

PROPERTIES:	Nitrogen Content	4.5%
	Total Base Number (ASTM D 2896)	135 mg KOH/g
	Color (ASTM D 1500 neat)	3.0
	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	280 mm ² /s (cSt)
	Viscosity @ 100°C (ASTM D 445, DIN 51 550)	9.0 mm ² /s (cSt)
	Density @ 15.6°C (ASTM D 4052)	0.98 g/ml
	Weight Per Gallon @ 25°C	8.2 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	185°C (366°F)

Note: The above analytical data are not specifications.

		<u>Typical Treat Levels</u>
APPLICATIONS:	Hydraulic and Circulating Oils	0.2% - 0.5%
	Compressor and Paper Machine Oils	0.2% - 0.5%
	Greases and Engine Oils	0.2% - 0.6%
	Industrial and Automotive Gear Oils	0.1% - 0.6%

NA-LUBE AO-142 imparts excellent oxidation resistance to lubricants and greases. Its high nitrogen content and liquid form allow **NA-LUBE AO-142** to be easily blended into all types of high performance lubricants. **NA-LUBE AO-142** is especially suitable for use in synthetic and mineral oil based lubricants used in high temperature applications. **NA-LUBE AO-142** can also be used in synthetic base fluids such as silicone oils and diesters. **NA-LUBE AO-142** in combination with NA-LUBE AO-242 and yellow metal deactivators imparts outstanding oxidation stability to lubricants. **NA-LUBE AO-142** is in chemical compliance with the Food and Drug Administration Regulation 21 CFR 178.3570 (lubricants with incidental food contact) up to a treat level of 0.5% by weight.

(see reverse side)

NA-LUBE[®] AO-142

ADVANTAGES:

- * **Compliance with the Food and Drug Administration Regulation 21 CFR 178.3570**
- * **High nitrogen content**
- * **High total base number**
- * **Outstanding solubility characteristics**

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: 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 Safety Data Sheet (SDS) for **NA-LUBE AO-142**.

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

v:\lad\TechnicalLiterature\CumtTDS\NALUBE\AO142_06
Revision date: 09 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.