

Product Data Sheet

NA-LUBE[®] BL-1400



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

NA-LUBE BL-1400 is a fully-formulated ashless additive package for antiwear hydraulic fluids. It can be used to formulate fluids that meet Parker Hannifin (Denison) HF-0, HF-1 and HF-2 requirements.

CHEMICAL

COMPOSITION: Combination of sulfur-phosphorous compounds with oxidation and corrosion inhibitors.

APPEARANCE: Light colored, clear liquid

TYPICAL

PROPERTIES:	Viscosity @ 40°C (ASTM D 445, DIN 51 550)	60 mm ² /s (cSt)
	Density @ 20°C (ASTM D 1298)	0.975 kg/m ³
	Nitrogen	2.5 %
	Phosphorus	0.8 %
	Sulfur	1.6 %
	Weight Per Gallon @ 20°C	7.7 lbs
	Flash Point, COC (ASTM D 92, DIN 51 376)	140°C (284°F)

Note: The above analytical data are not specifications.

		<u>Typical Treat Levels</u>
APPLICATIONS:	Hydraulic Fluids, Ashless (HF-0, HF-1, HF-2)	0.45% - 0.6%
	Circulating and Compressor Oils	0.45% - 0.6%

NA-LUBE BL-1400 is an ashless high performance hydraulic and compressor oil additive package. It has been used to formulate ISO VG 32, 46 and 68 hydraulic fluids that meet Parker Hannifin (Denison) HF-0, HF-1, and HF-2 requirements in both Group I and Group II base oils.

NA-LUBE BL-1400 is also ideally suited to formulate high quality mineral oil or PAO compressor fluids with antiwear properties.

ADVANTAGES:

- * **Very high oxidation stability**
- * **High load carrying capacity**
- * **Good demulsification**
- * **Excellent thermal and hydrolytic stability**

(see reverse side)

NA-LUBE[®] BL-1400

- 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:** 440 lbs (200 kg) closed head drum.
- STORAGE CONDITIONS:** Formation of haze or crystallization may occur during low temperature storage. If this occurs, warming to 40-50°C with agitation will reconstitute the product. Avoid overheating to temperatures above 60°C. 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 1 year of 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 BL-1400**.
- 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\CumtPDS\NA-LUBE\BL-1400_04
Revision date: 24 SEPT 2015

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.