

Product Data Sheet

NA-LUBE[®] AO-142



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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-240 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.

ADVANTAGES:

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

(see reverse side)

NA-LUBE® AO-142

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: 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-142**.

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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