

Product Data Sheet

NA-LUBE[®] AO-142



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



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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 D2896) | 135 mg KOH/g |
| | Color (ASTM D 1500 neat) | 3.0 |
| | Viscosity @ 40°C (ASTM D445, DIN 51 550) | 345 mm ² /s (cSt) |
| | Viscosity @ 100°C (ASTM D445, DIN 51 550) | 9.0 mm ² /s (cSt) |
| | Density @ 15.6°C (ASTM D4052) | 0.98 g/ml |
| | Weight Per Gallon @ 25°C | 8.2 lbs |
| | Flash Point, COC (ASTM D92, 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.

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:

- *Excellent oxidation inhibitor
- * Easy to handle liquid
- * 100% active, mineral oil free
- * Compliance with the Food and Drug Administration Regulation 21 CFR 178.3570
- * Outstanding solubility in most lubricant base oils

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.

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