

# Product Data Sheet

## NA-LUBE<sup>®</sup> AO-120



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**NA-LUBE AO-120** is a general purpose ashless high temperature antioxidant for mineral oil and synthetic based lubricants and greases. It is particularly suited for applications in which thermal stability is a critical requirement.

### CHEMICAL

**COMPOSITION:** Refined octylated diphenylamine derivative.

**APPEARANCE:** White to yellow powder.

### TYPICAL PROPERTIES:

Nitrogen Content	3.4%
Total Base Number (ASTM D 664)	135 mg KOH/g
Ash Content (ASTM D 482)	< 0.01%
Density @ 25°C	1.02 g/ml
Weight Per Gallon @ 25°C	8.5 lbs
Melting Point (ASTM D 1519)	> 98°C (208°F)
Flash Point, COC (ASTM D 92, DIN 51 376)	> 150°C (320°F)

Note: The above analytical data are not specifications.

### APPLICATIONS:

	<u>Typical Treat Levels</u>
Hydraulic Fluids	0.1% - 0.6%
Circulating Oils	0.1% - 0.2%
Compressor Oils	0.2% - 0.4%
Paper Machine Oils	0.2% - 1.0%
Greases	0.2% - 0.4%
Industrial Gear Oils	0.1% - 0.5%
Automotive Gear Oils	0.1% - 0.5%
Turbine Oils	0.1% - 0.2%

**NA-LUBE AO-120** imparts outstanding thermal and oxidation stability to mineral oils, synthetic fluids and greases at high temperatures. **NA-LUBE AO-120** is readily soluble and can easily be incorporated into all types of lubricants and greases. For high performance lubricants, it is recommended to use **NA-LUBE AO-120** in combination with other antioxidants, e.g., with the phenolic antioxidant NA-LUBE AO-210, and/or yellow metal deactivators, such as K-CORR NF-200. These combinations exhibit synergistic effects. **NA-LUBE AO-120** is also soluble in acetone, toluene and gasoline.

(see reverse side)

# NA-LUBE<sup>®</sup> AO-120

**ADVANTAGES:**

- \* Excellent diphenylamine based antioxidant
- \* Suitable for high temperature applications
- \* Low dust formation

**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:** 110 lbs (50 kg) bag.

**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-120**.

**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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