

VANLUBE® 81

Ashless Aminic Antioxidant



VANLUBE® 81 is a purified grade of p,p'-dioctyldiphenylamine. Testing has shown it to be a very effective high temperature antioxidant in conventional and synthetic lubricants.

CHEMICAL COMPOSITION -

p,p'-dioctyldiphenylamine

- TYPICAL PROPERTIES —

Physical State	Powder
Appearance	Off-White Powder
Density @ 25 °C, Mg/m ³	1.01
Melting Point, °C	95 minimum
Distillation Range, °C (0.25 to 0.75 mm Hg)	254 to 260
Ash, %	<0.01
Heating Loss, %	<0.50

*The analytical data listed above are not specifications

APPLICATIONS —

- Industrial oils
- Turbine and R&O oils
- Compressor oils
- Hydraulic fluids
- Jet Turbine oils
- Greases
- Engine and transmission oils

- RECOMMENDED TREAT RATES

• 0.5% to 2.0% in synthetic fluids. 0.1 to 1.0% in mineral oils

- ADVANTAGES -

- Effective high temperature oxidation inhibitor in synthetic lubricants based on silane, siloxane, PAO, PAG diesters, polyol esters and silicone fluids.
- Works synergistically with hindered phenolic antioxidants.
- Soluble in a variety of synthetic and petroleum base lubricants.
- Better color stability thank typical alkyl diphenyl amines when exposed to light.
- Works well in a number of petroleum lubricants which require a stable, ashless, high temperature oxidation inhibitor.

- Demonstrates good antioxidant properties in ASTM D942 oxidation tests for high-temperature lubricating greases, both petroleum and synthetic based.
- Provides outstanding results in bearing performance tests at 175°C (350°F) when used at 2% in siloxane greases.

SOLUBILITY ·

- Soluble in silicones, silanes, siloxanes, PAO, PAG, esters and mineral oils.
- Insoluble in water.

- STANDARD PACKAGING -

- 55 lb. Bags
- 100 lb. Fiber Drums
- 1600 lb. Super Sacks

- HANDLING AND STORAGE —

This material should be stored at room temperature and out of direct sunlight to avoid discoloration.

REGISTRATION ·

Please refer to section 15 of SDS for regulatory information.

- CONTACT INFORMATION -

For samples, product information and/or technical service, please contact Vanderbilt Chemicals, LLC or the Vanderbilt representative in your area:

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