



VANLUBE® 81

**Ashless Aminic
Antioxidant**

TECHNICAL DATA

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 than 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.

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- 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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