



# VANLUBE<sup>®</sup> DND

## Antioxidant

### TECHNICAL DATA

**VANLUBE<sup>®</sup> DND** is a versatile liquid aminic antioxidant soluble in most lubricants, including mineral and synthetic based fluids.

### CHEMICAL COMPOSITION

Dinonyldiphenylamine

### TYPICAL PROPERTIES

Physical State	Liquid
Appearance	Amber to Brown
Nitrogen, %	3.5
100 °C, mm <sup>2</sup> /s	15
DPA Assay, % maximum	0.99
Sulphate Ash, % maximum	0.05
Moisture, ppm	5000
Specific Gravity	0.95
pH	7.5

\*The analytical data listed above are not specifications

### APPLICATIONS

- Engine Oils
- Automatic Transmission Fluids
- Racing Oils
- Greases
- Gear Oil
- Industrial Oils
- Synthetic Lubricants

### RECOMMENDED TREAT RATES

- Formulation and application specific, typical range 0.05 – 1.0%

### ADVANTAGES

- Ashless additive containing no metals
- Low viscosity liquid for ease of handling
- Excellent high performance aminic antioxidant suitable for most minerals and synthetic based lubricants
- Useful with sulfurized antioxidants and alkylated PANAs to further enhance oxidation performance
- Synergistic with phenolic antioxidants

## ADVANTAGES CONTINUED

- Reduces piston deposits when used in combination with molybdenum additives
- Robust performance inhibiting oxidation in many bench tests. Example: RPVOT and PDSC

## SOLUBILITY

- Soluble in mineral and most synthetic fluids

## STANDARD PACKAGING

- 400 lb. drums, tank trucks, and totes

## HANDLING AND STORAGE

Please refer to section 7 of SDS for handling and storage information

Suggested pumping temperature is 35 °C

Short- and long-term maximum handling temperatures are 60 °C and 40 °C respectively

## REGISTRATION

Please refer for 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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