

VANLUBE[®] W-324

**Antiwear/
Antioxidant/
High Temperature
Friction Reducer**

TECHNICAL DATA

VANLUBE[®] W-324 is a sulfur and phosphorus-free multifunctional additive that enhances the antioxidant, antiwear and friction properties of engine oils, lubricating oils and greases.

CHEMICAL COMPOSITION

Dialkylammonium tungstate

TYPICAL PROPERTIES

Physical State	Liquid
Appearance	Amber to black
Tungsten, %	14.5
Nitrogen, %	1.5
Viscosity, 40°C, mm ² /s	227.0
Viscosity, 100°C, mm ² /s	11.6
Flash Point, PMCC, °C	175

*The analytical data listed above are not specifications

APPLICATIONS

- Engine oils
- Gear oils
- Industrial oils
- Greases
- Racing oils

RECOMMENDED TREAT RATES

- Typical range is 0.05 to 0.5 wt. % but can vary based on formulation style and application.

ADVANTAGES

- Offers good oil solubility by virtue of long chain ligand
- Easy to handle as low viscosity liquid
- Contains no phosphorus or sulfur
- Performs at low treat rates because of high tungsten content
- Imparts antiwear, antioxidant and high temperature friction reduction to a wide variety of lubricating oils

SOLUBILITY

- Solubility is better in lubricating fluids that contain dispersants

STANDARD PACKAGING

- 425 lb. drums

HANDLING AND STORAGE

STORAGE

Please refer to Section 7 of SDS for storage and handling information.

HANDLING

Suggested pumping temperature is room temperature. Short and long term maximum handling temperatures are 75°C and room temperature respectively.

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:

Vanderbilt Chemicals, LLC
30 Winfield Street, P.O. Box 5150
Norwalk, CT 06856-5150
P: (203) 853-1400
F: (203) 853-1452
www.vanderbiltchemicals.com

Vanderbilt (Beijing) Trading, Ltd
Room 220A, Tower A
No. 8 Hengfeng Road
Science Town, Fengtai District
Beijing 100070 P. R. China
P: 011- 86 10 56541176
F: 011- 86 10 56541175

Vanderbilt Worldwide Ltd
12 Park House Alvaston Business Park, Middlewich Road
Nantwich, Cheshire, CW5 6PF
United Kingdom
www.vanderbiltworldwide.com