



# VANLUBE® 289HD

**Friction Reducer/  
Antiwear**

## TECHNICAL DATA

**VANLUBE® 289HD** is an enhanced version of **VANLUBE 289**, with the same excellent friction reducing and antiwear properties, but with corrosion protection geared for heavy duty diesel engine oils and other lubricant applications where high temperature corrosion is a concern. This ashless additive is free of sulfur and phosphorus making it an ideal candidate for low SAP applications.

## CHEMICAL COMPOSITION

Inhibited borated ester amide

## TYPICAL PROPERTIES

Physical State	Liquid
Appearance	Amber
Density at 25°C, Mg/m <sup>3</sup>	0.965
Viscosity at 40°C, mm <sup>2</sup> /s	300
Viscosity at 100°C, mm <sup>2</sup> /s	15
Nitrogen content, %	6.2
Boron, %	0.7

\*The analytical data listed above are not specifications

## APPLICATIONS

- Engine Oils
- Racing Oils
- Gear Oils
- Automatic Transmission Fluids
- Greases
- Metal Working Fluids

## RECOMMENDED TREAT RATES

- Typical range is 0.1 to 1.0 wt. % but can vary based on formulation style and application

## ADVANTAGES

- Offers ease of handling as low viscosity liquid
- Imparts corrosion-inhibiting properties to lubricating oils
- Offers multifunctionality as a light colored additive that reduces friction and wear in finished lubricants
- Synergizes with other friction reducers and antiwear additives
- Provides utility in low SAP applications that require sulfur and phosphorus-free additives



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## SOLUBILITY

- Soluble in mineral and synthetic base oils

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## STANDARD PACKAGING

- 425 lb. metal drums

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## HANDLING AND STORAGE

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

### **Additional handling and storage information:**

Suggested pumping temperature is 25°C.

Short and long term maximum handling temperatures are 80°C and room temperature respectively.

**VANLUBE® 289HD** can separate, crystallize or form a gel when exposed to low temperatures. If this occurs, heat to 80°C and mix thoroughly before use.

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## REGISTRATION

Please refer to section 15 of SDS for regulatory information.

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## 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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