

# VANLUBE® 672E

**Extreme Pressure /  
Antiwear Agent**

## TECHNICAL DATA

**VANLUBE® 672E** Lubricant Additive is a highly viscous, extreme pressure and antiwear additive for industrial lubricants, including lubricating oils, greases and synthetic fluids. It is primarily used in metalworking fluids, and particularly for drawing, stamping and forming compounds. It will improve the EP performance of conventional extreme pressure materials such as sulfurized olefins, fatty oils, chlorinated paraffins, metal dithiocarbamates and phosphorodithioates. It is effective in low concentrations as an antiwear additive in synthetic lubricants.

## CHEMICAL COMPOSITION

Amine Phosphate

## TYPICAL PROPERTIES

<b>Appearance</b>	Light amber liquid
<b>Color (ASTM D1500)</b>	3
<b>Nitrogen, wt. %</b>	5.0
<b>Phosphorus, wt. %</b>	9.5
<b>Density at 15.6 °C, Mg/m<sup>3</sup></b>	1.02
<b>Viscosity @ 100 °C, mm<sup>2</sup>/s</b>	250
<b>Flash Point, COC, °C</b>	115

\* The analytical data listed above are not specifications

## APPLICATIONS

- Metalworking
- Grease
- Gear oil
- Synthetic lubricants

## RECOMMENDED TREAT RATES

0.5 - 2.0%

## ADVANTAGES

- High 4-Ball weld point and last non-seizure loads in both greases and lubricating fluids
- Outstanding ASTM D3233 Falex Pin and Vee Block performance
- Suitable for ashless lubricant formulations
- No unpleasant odor compared to other amine phosphates
- Sulfur-free
- Non corrosive
- Synergistic with sulfur containing additives

## SOLUBILITY

- Soluble in petroleum products

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## STANDARD PACKAGING

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- 425 lb Drum

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## STORAGE AND HANDLING

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### STORAGE

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10 of SDS) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### HANDLING

Put on appropriate personal protective equipment (see Section 8 of SDS). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

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## REGISTRATION

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Please refer for section 15 of SDS for regulatory information.

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## CONTACT INFORMATION

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

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