

VANLUBE® 9123

**Ashless Antiwear/
Anti-Rust Additive**

TECHNICAL DATA

VANLUBE® 9123 is an excellent antiwear additive and rust inhibitor, useful in wide range of industrial oils and lubricating greases.

CHEMICAL COMPOSITION

Amine Phosphate Compound

TYPICAL PROPERTIES

Physical State	Liquid
Color, ASTM D1500	<2.0
Density @ 25°C, Mg/m ³	0.94
Viscosity @ 100°C, mm ² /s	22
Flash Point (PMCC), °C	96
Nitrogen Content, %	3.5 to 4.5
Phosphorous Content, %	5.6

* The analytical data listed above are not specifications

APPLICATIONS

- Hydraulic Fluids
- Compressor Fluids
- Industrial Gear Oils
- Turbine Oils
- Process Oils
- Engine Oils
- Circulating Oils
- Metal working fluids
- Greases

RECOMMENDED TREAT RATES

- Recommended treat rates are 0.5 to 2.0% based on application

ADVANTAGES

- Works as an excellent sulfur free and ashless antiwear additive that also imparts rust protection
- May be used in combination with other Vanderbilt Petroleum additives to reduce wear in various industrial formulations
- Demonstrates exceptional EP and anti-wear in grease when used in combination with thiadiazole EP additives
- Provides anti-wear synergy with ashless dithiophosphates like **VANLUBE® 727** and **VANLUBE® 7611M** Lubricant Additive

- May be used up to 0.5 mass % to formulate food-grade products certified HX-1 by NSF
- Offers outstanding rust-preventing properties at low treat rates in the ASTM D665 rust test in the presence of distilled water or synthetic sea water

SOLUBILITY

- Has good solubility in petroleum and synthetic base oils

STANDARD PACKAGING

- 400 lb. metal drums

STORAGE AND HANDLING

- Long Term Maximum Storage Temperature is Room Temperature
- Short Term Maximum Temperature is 75°C

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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