



Distributed in the Interest
of Product Development

VANDERBILT

Technical Data

CUVAN[®] 303

Lubricant Additive

CORROSION INHIBITOR

METAL DEACTIVATOR

R.T. Vanderbilt Company, Inc.
30 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150
Telephone: (203) 853-1400
Fax: (203) 853-1452, Web Site: www.rtvanderbilt.com

Before using, read, understand and comply with the information and precautions in the Material Safety Data Sheets, label and other product literature. The information presented herein, while not guaranteed, was prepared by technical personnel and, to the best of our knowledge and belief, is true and accurate as of the date hereof. No warranty, representation or guarantee, express or implied, is made regarding accuracy, performance, stability, reliability or use. This information is not intended to be all-inclusive, because the manner and conditions of use, handling, storage and other factors may involve other or additional safety or performance considerations. The user is responsible for determining the suitability of any material for a specific purpose and for adopting such safety precautions as may be required. R. T. Vanderbilt Company does not warrant the results to be obtained in using any material, and disclaims all liability with respect to the use, handling or further processing of any such material. No suggestion for use is intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patent or to violate any federal, state or local law or regulation.

CUVAN[®] 303
Lubricant Additive

CORROSION INHIBITOR

METAL DEACTIVATOR

Typical Properties

Composition:	N, N-bis(2-Ethylhexyl)-ar-methyl-1H-benzotriazole-1-methanamine
Physical State:	Clear yellow to brown liquid
Color, ASTM D 1500:	L 1.5
Specific Gravity at 25 °C:	0.94-0.96
Viscosity at 40 °C, cSt:	73.0
Viscosity at 100 °C, cSt:	5.81
Flash Point, PMCC, °C:	125

CUVAN 303 is an oil-soluble corrosion inhibitor and metal deactivator for lubricants, greases, and metalworking fluids. As a corrosion inhibitor, it is effective in protecting copper, copper alloys, cadmium, cobalt, silver and zinc. As a metal deactivator, **CUVAN 303** inhibits oxidation by chelating metal ions that catalyze oxidation. Recommended treat levels are from 0.05 to 0.20 mass percent.

Copper Corrosion, ASTM D 130

Base: ISO 220 Blend with 100 ppm Sulfur

Temperature: 100 °C

<u>Copper Strip Rating</u>	<u>Without CUVAN 303</u>	<u>With CUVAN 303, 0.05% mass</u>
3 hours	4a	1a
24 hours	4b	1b

Copper Corrosion, ASTM D 130

Base: ISO 220 Blend with 5.0% mass S/P package without Cu Corrosion Inhibitor

Temperature: 100 °C

<u>Copper Strip Rating</u>	<u>Without CUVAN 303</u>	<u>With CUVAN 303, 0.05% mass</u>
3 hours	1b	1b
24 hours	3b	1b

Copper Corrosion, ASTM D 130

Base: ISO 220 Blend with 5.0% mass S/P package without Cu Corrosion Inhibitor

Temperature: 121 °C

Copper Strip Rating
3 hours

Without **CUVAN 303**
3b

With **CUVAN 303**, 0.10% mass
1b

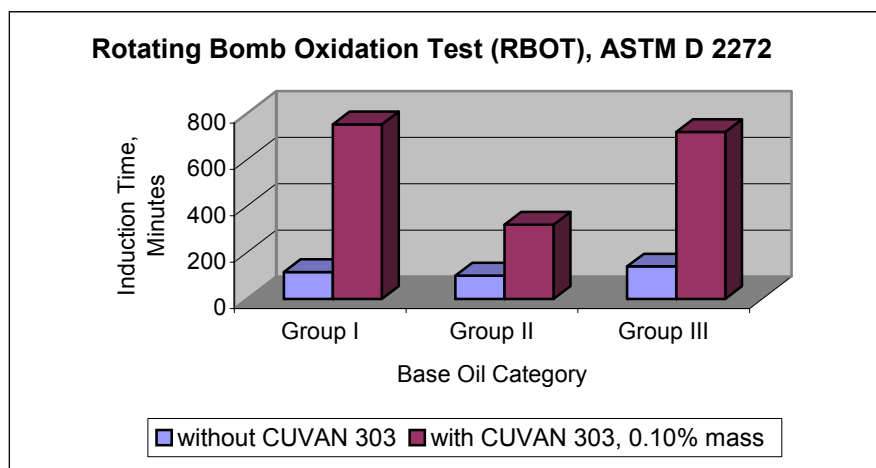


Figure 1: Base oils were all treated with 0.20% mass of alkylated diphenylamine (**VANLUBE® 961** additive).

Storage and Handling Suggestions

Unloading pumping temperature: 20 °C
Maximum unloading temperature: 60 °C
Storage temperature: Room temperature

CUVAN and VANLUBE are registered trademarks of R.T. Vanderbilt Company, Inc.

**For additional information regarding our
high quality minerals and chemicals,
please visit our website:**

www.rtvanderbilt.com

- Technical data sheets
- MSDS information
- Sample requests
- Specifications
- Product brochures
- Articles
- Presentations
- Reports