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# VANDERBILT

## *Technical Data*

### VANLUBE<sup>®</sup> 73 Super Plus LUBRICANT ADDITIVE

**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](http://www.rtvanderbilt.com)**

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# VANLUBE<sup>®</sup> 73 Super Plus

## Lubricant Additive

*Extreme Pressure*

*Antiwear*

*Antioxidant*

### Typical Properties

Composition:	Metal dialkyldithiocarbamate mixture
Physical State:	Liquid
Color, ASTM D 1500:	7.0 maximum
Density at 25°C, Mg/m <sup>3</sup> :	1.05
Viscosity at 40°C, mm <sup>2</sup> /s:	1,190
Viscosity at 100°C, mm <sup>2</sup> /s:	33.34
Flash Point, PMCC, °C:	245 minimum
Antimony Content, %:	5.8
Zinc Content, %:	4.5
Sulfur Content, %:	18.5
Nitrogen Content, %:	4.5

**VANLUBE 73 Super Plus** is a proprietary mixture of dialkyldithiocarbamates. Based on equivalent antimony content, as shown in the table below, the load-carrying capability of **VANLUBE 73 Super Plus** is superior to that of antimony dialkyldithiocarbamate (SDDC), and comparable to that of combinations of SDDC and sulfurized olefin. As an antioxidant, **VANLUBE 73 Super Plus** outperforms both SDDC and SDDC/sulfurized olefin and, unlike sulfurized olefin, it does not lower the dropping point of lithium complex grease. **VANLUBE 73 Super Plus** does not have the pungent odor of sulfurized olefin.

Component	Treat Rate, Mass Percent				
	3.0	2.5	2.5	2.3	
<b>VANLUBE 73 Super Plus</b>	3.0				
Compound A (SDDC)		2.5			
Compound B (SDDC)			2.5		
Compound C (SDDC/sulfurized olefin 1:1 blend)				2.3	
Lithium Complex Grease, NLGI 2	97.0	97.5	97.5	97.7	100
Antimony content in grease, %	0.17	0.17	0.17	0.17	0
Timken OK Load (ASTM D 2509), lb	70	25	Fail 20	60	<20
4-Ball Wear (ASTM D 2266), 1200 rpm, 75 °C, 40 kgf, 1h, mm	0.57	0.54	0.56	0.60	0.69
4-Ball EP (ASTM D 2596), Weld Point, kgf	400	400	400	400	250
Dropping Point (ASTM D 2265), °C	283 273	277	267	252 247	273
PDSC Oxidation Induction Time (ASTM D 5483), minutes at 180 °C	76.6	61.7	54.1	45.4	0.8

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