

VSG[®] - THE 'GREEN' GREASE TYPICAL TEST DATA – NLGI GRADE 1

Main ingredient: name	canola (vegetable) oil
Thickener:	calcium sulphonate
Biodegradability: % after 21 days, CEC L-33-T-82.	81
Eco-toxicity: Daphnia Magna test, 48 hours	LC50 >1,000 ppm
Rainbow Trout test, 96 hours	LC50 >93 cm ² /l
Daphnia Magna, 48 hours per EPA/600/4-90/027F	LD50 >1,000 ppm
Mysid Shrimp, 48 hours per EPA/600/4-90/027F	LD50 >1,000 ppm
Lead Content: ppm	<1 (none added)
Density: kg/L	>1.0
Color:	light tan
Odor:	similar to cooking oil
Penetration: worked at 25°C (77°F), ASTM D-217	325
Dropping Point: °C (°F), ASTM D-2265	250 (480)
Apparent Viscosity: Poise at 0°C (32°F), ASTM D-1092	
15 reciprocal seconds	429
100 reciprocal seconds	102
500 reciprocal seconds	42
Lincoln Ventmeter: psi drop @ 25°C / 0°C / -18°C (77/32/0°F)	20 / 110 / 235
USX Mobility: g/minute @ -18°C (0°F) and 21.7 kPa (150 psi)	226
Worked Stability: % change after 100,000 strokes, ASTM D-217	+2.5 (softens)
10,000 strokes with 20% water, ASTM D-217	-20 (stiffens)
Roll Stability: % change, with 50% water, ASTM D-1831	-19 (stiffens)
Water Washout: % loss at 79.4°C (175°F), ASTM D-1264	1.21
Oil Bleed: ASTM D6184, % cone oil bleed after 30 hours at 100°C (212°F)	0.87
Volatile Matter: % loss after 3 hours @ 107°C (225°F).	0.38
Timken OK Load: kg, ASTM D-2509	25
4 Ball EP: ASTM D-2596, load wear index, kgf	55
weld point, kgf	400
4 Ball Wear: ASTM D-2266, scar diameter in mm	0.42
US Navy Gear Wear: 10 lb load, mg/1000 cycles	0.57
Salt Fog: ASTM DB-117, hours to failure @ 1 mil d.f.t.	>300
Rust Protection: ASTM D-1743	pass
Copper Strip Corrosion: 24 hours at 100°C (212°F), ASTM D-4048	1b
Low Temperature Flexibility: 1 hr @ -20°F, MIL-PRF-18458C	Pass
Adhesiveness: 15 minutes at 151°F, MIL-PRF-18458	99%

Plus, no added dyes, heavy metals, chlorinated compounds, zinc compounds or sodium nitrate.

Other test data is available. If you do not see what you want, please contact us.

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