



Product	Type
LUBRIZOL® 21201	Passenger Car Motor Oil Additive

A high performance passenger car engine oil additive system for API Group IV based formulations.

Application

Recommended for use at: 17.8 % by weight
when formulated with the appropriate base stocks and viscosity modifier will meet either:

- ACEA A3/B4-04 (2004)
- ACEA A5/B5-04 (2004)
- API SJ
- API SL
- API CF
- MB-Approval 229.3
- Volkswagen VW50200 (2005)
- Volkswagen VW50301 (2000)
- Volkswagen VW50500 (1997)
- BMW Longlife-98

Physical Characteristics

	Minimum	Target	Maximum
BASE NUMBER		63	
FLASH POINT, C, PMCC		157	
LBS PER U.S. GAL @ 15.6 C		7.91	
LBS PER IMP GAL @ 15.6 C		9.5	
POUR POINT, C		-27	
SPECIFIC GRAVITY @ 15.6 C	0.935	0.950	0.965
VISCOSITY @ 100 C, CST		100	
VISCOSITY @ 40 C, CST		1700	

Chemical Characteristics

	Minimum % Weight	Typical	Maximum % Weight
CALCIUM	1.95	2.17	2.39
NITROGEN	0.49	0.56	0.63
PHOSPHORUS	0.60	0.67	0.74
SULFATED ASH		8.5	
SULFUR		2.4	

ZINC	0.67	0.74	0.81
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General handling instructions - In general, The Lubrizol Corporation recommends, as a minimum, the use of neoprene or nitrile rubber gloves and safety glasses or chemical splash goggles. The Material Safety Data Sheet should be consulted for specific information and for information on health and safety when handling this product.

Fire and explosion hazard data

	Flash Point (method)	Classification
	157°C PMCC	N/A

Temperature recommendations

Unloading	Pumping Temperature	55°C	131°F
	Maximum temperature*	70°C	158°F
Storage			
Maximum temperature for long-term storage		45°C	113°F
Blending			
Maximum base oil temperature for mechanical or in-line mixing		70°C	158°F

Equipment recommendations

Type of Pump	Positive Displacement
Type of transfer line	Ball Launched, Insulated, Steam Traced Using 107°C/225°F Steam Max.
Transfer line size	2-3inch/5-8 cm.

Heat source

Type	n/a
Storage tank	Suction Heater Recommended

Viscosity data	cSt	SUS
at 25°C, 77°F	4872	22539
at 40°C, 104°F	1700	7877
at 100°C, 211°F	100	467

Notes

Pour Point	-27°C, -16°F
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Additional Recommendations

* Holding the material in excess of this temperature may cause chemical degradation. Use steam for heating and tracing only when the material is in motion to avoid localized overheating. Cold Temperature Storage - If product has been stored below its pour point temperature it should be heated to 21°C/70°F before using.

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