Product	| Type
LUBRIZOL® 21112	**Passenger Car Motor Oil Additive**

A high performance additive providing API, ACEA 2010 and European OEM performance in API Group I and III based formulations.

Application

Recommended for use at: 9.7 % by weight

- ACEA A3/B3-10 (2010)
- API SL
- Volkswagen VW50101 (1997)
- Volkswagen VW50500 (2005)

9.7% LUBRIZOL® 21112 is a combination of 7.0% LUBRIZOL® 21102 and 2.7% LUBRIZOL® 21152

Physical Characteristics

	Minimum	Target	Maximum
FLASH POINT, C, PMCC		152	
LBS PER U.S. GAL @ 15.6 C		8.26	
LBS PER IMP GAL @ 15.6 C		9.92	
POUR POINT, C		-21	
SPECIFIC GRAVITY @ 15.6 C	0.971	0.991	1.011
VISCOSITY @ 100 C, CST		125	
VISCOSITY @ 40 C, CST		2450	

Chemical Characteristics

	Minimum % Weight	Typical	Maximum % Weight
BASE NUMBER (MGKOH/G)		98	
CALCIUM	2.60	2.89	3.18
NITROGEN	0.79	0.88	0.97
PHOSPHORUS	0.75	0.84	0.93
SULFATED ASH		11.2	
SULFUR		2.3	
ZINC	0.83	0.93	1.03

LUBRIZOL® 21112 Unloading, storage and blending instructions

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	
	152°C PMCC	N/A	
Temperature recommendations			
Unloading	Pumping Temperature	60°C	140°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	3 inch/8 cm. Min.		
Heat source			
Type	n/a		
Storage tank	Suction Heater Recommended		
Viscosity data	**cSt**	**SUS**	
at 25°C,77°F	7406	34262	
at 40°C, 104°F	2450	11352	
at 100°C, 211°F	125	583	
Notes			
Pour Point	-21°C,-5°F		

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.

Effective: 4/16/2013 10:29:15 AM

LUBREX

https://www.lubrex.com.tr/

lubrex@lubrex.com.tr