



Product	Type
LUBRIZOL® PV9131	Passenger Car Additive

An engine oil additive for the formulation of Passenger Car lubricants meeting ACEA, API and European OEM requirements.

Application

Recommended for use at: 11.4 % by weight
when formulated with the appropriate base stocks and viscosity modifiers will meet the requirements of :

- ACEA A3/B4-12 (2012)
- ACEA A5/B5-12 (2012)
- API SN
- MB-Approval 229.1
- Renault RN0700
- Renault RN0710

Not all approvals are possible on a single formulation and some approvals only apply to specific viscosity grades and oil formulations.

Recommended for use at: 11.1 % by weight
when formulated with the appropriate base stocks and viscosity modifiers will meet the requirements of :

- ACEA A3/B3-12 (2012)
- API SN
- MB-Approval 229.1

Not all approvals are possible on a single formulation and some approvals only apply to specific viscosity grades and oil formulations.

Physical Characteristics

	Minimum	Target	Maximum
FLASH POINT, C, PMCC		163	
LBS PER U.S. GAL @ 15.6 C		8.16	
LBS PER IMP GAL @ 15.6 C		9.8	
POUR POINT, C		-21	
SPECIFIC GRAVITY @ 15.6 C	0.959	0.979	0.999
VISCOSITY @ 100 C, CST		190	
VISCOSITY @ 40 C, CST		4350	

Chemical Characteristics

	Minimum % Weight	Typical	Maximum % Weight
BASE NUMBER (MGKOH/G)	88	94	
CALCIUM	2.44	2.67	2.90
NITROGEN	0.86	0.96	1.06
PHOSPHORUS	0.53	0.58	0.63
SULFATED ASH (SEE COMMENT)	9.1	10.0	11.1
SULFUR		2.0	
ZINC	0.58	0.63	0.68

LUBRIZOL® PV9131 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
163°C PMCC	N/A

Temperature recommendations

Unloading	Pumping Temperature	75°C	167°F
	Maximum temperature	80°C	176°F

Storage

Maximum temperature for long-term storage	45°C	113°F
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Blending

Maximum base oil temperature for mechanical or in-line mixing	80°C	176°F
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Equipment recommendations

Type of Pump	Centrifugal
Type of transfer line	Ball Launched, Insulated
Transfer line size	4 inch/10 cm. Min.

Heat source

Type	n/a
Storage tank	n/a

Viscosity data

	cSt	SUS
at 25°C, 77°F	141	651
at 40°C, 104°F	150	695
at 100°C, 211°F	190	886

Notes

Pour Point	-21°C, -5°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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