



DUROPLATE™ – EP GEAR LUBE

DESCRIPTION:

DUROPLATE EP GEAR LUBES are extreme pressure lubricants formulated to meet the exacting demands of most types of automotive differentials and transmissions including heavy-duty off-road fleets.

DUROPLATE EP GEAR LUBE is designed to perform under adverse conditions such as: heavily loaded gears, shock loading, and frequent reversing action. DUROPLATE products meet the performance requirements of extreme pressure lubricants of the American Gear Manufacturer's Association (AGMA) Specification 9005-D94 Lubrication of Industrial Enclosed Gearing."

USES:

DUROPLATE EP GEAR LUBES meet or exceed the following requirements for the respective viscosity grades:

U.S. Steel Spec 224	MT-1
GL-5	Ford EST-M2C-108-C
MIL-L-2105E	Chrysler MS 9020
Mack GO-H	
John Deere J11D	
Navistar (IHC) Grades 81 HR, 90HR, 135 HEP	
Rockwell 0-76 (A,B,C,D,F)	
GM Spec 9985044	

BENEFITS:

- **REDUCES WEAR** - protects against scoring, scuffing and galling to increase gear and bearing life.
- **VERSATILE** – may be used in a variety of equipment and mixed fleets. Reduces inventory.
- **ANTI-FOAM** - protects seals and keeps operating temperatures low by breaking up entrapped air bubbles as they form.
- **RAPID DEMULSIFICATION** - separates easily from water. Duroplate EP Gear lube does not lose lubricity due to emulsified water.

APPLICATION:

DUROPLATE EP GEAR LUBE is designed primarily for automotive differentials and transmissions. DUROPLATE EP GEAR LUBE may be used in severe service over-the-road and off-road applications. It may also be used in industrial gearboxes, oiled bearings, and couplings. Suitable for service-fill on equipment requiring a lubricant with Limited Slip characteristics.

SPECIFICATIONS:

ASTM #	SAE Grade	TYPICAL CHARACTERISTICS	
		80W-90	85W-140
<u>D-445</u>	<u>Kinematic Viscosity</u>	220	380
	cSt @ 40°C	21	30
	cSt @ 100°C		
<u>D-2161</u>	<u>Saybolt Viscosity</u>	1012	2020
	SUS @ 100°F	100	150
	SUS @ 210°F		
<u>D-2270</u>	<u>Viscosity Index</u>	110	111
<u>D-97</u>	Pour Point, °F (°C)	-20 (-29)	0 (-18)
<u>Gardner Method</u>	Density, lb/gal @ 60°F (°C)	7.45	7.55
	Specific Gravity, g/cc @ 60°F (°C)	0.894	0.906
<u>D-92</u>	Flash Point, °F (°C)	400	400 (204)
	Cleveland Open Cup	(204)	
<u>D-2782</u>	Timken OK Load, lb	55	60
<u>D-2783</u>	<u>Four Ball EP</u>	400	400
	Weld Point, kg	50	50
	Load Wear Index		
<u>D-4172</u>	<u>Four Ball Wear</u>	0.33	0.35
	Scar Width, mm @ 40 kgf		
<u>D-665</u>	<u>Rust Test</u>	Pass	Pass
	Distilled Water		
<u>D-130</u>	<u>Copper Strip Corrosion</u>	1B	1B
	212°F (100°C) @ 3 hr		
<u>Color</u>	Red		Red
<u>D-2711</u>	Demulsibility: Modified for	Pass*	Pass*
	90 ml Water		

LUBRIFORMANCE

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