



TECHNICAL DATA

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#260 PERMA MOLY EP

Perma Moly EP is a versatile, multipurpose extreme pressure, antiwear grease that is specially formulated for usage in all types of heavy duty automotive, construction, mining, farming and industrial equipment even under the most adverse conditions of excessive pressures, heat, cold and high and low speeds through the unique combination of molybdenum disulfide and synthesized moly.

Perma Moly EP is compounded from the finest high viscosity index solvent refined severely hydrofinished 100% pure paraffin base stocks available. Blended into these 100% pure paraffin base stocks is an inorganic thickener, which allows Perma Moly EP the ability to lubricate the bearings effectively up to temperatures of 500-600°F.

Incorporated into this blend of 100% pure paraffin base stocks and inorganic thickener is a unique combination of molybdenum disulfide and synthesized moly. the combination of molybdenum disulfide and synthesized moly allows Perma Moly EP the ability to act as "double-backstop" lubricant in the event the grease base is wiped away. This "double-stop" is created by the molybdenum disulfide's and synthesized moly's affinity metal surfaces. Both forms of moly plate themselves to the metal surfaces of the bearings to form a long lasting solid lubricant film. This solid lubricant film will withstand pressures up to 500,000 pounds per square inch, thus giving the metal surfaces of the bearings the protection they need during periods of high speeds, high shock loads and extreme pressures,

Perma Moly EP also has excellent rust and oxidation inhibiting characteristics, excellent water resistance and good mechanical stability. Perma Moly EP also has excellent adhesive properties. Because of its excellent adhesive properties, Perma Moly EP will not wash out, pound out, splatter or squeeze out even under the heaviest loads or vibrations.

Perma Moly EP can be applied either manually or by a heavy duty automatic lube system. Perma Moly EP #1 has an operating temperature of -10°F to 600°F. Perma Moly EP #2 has an operating temperature of 0°F to 600°F. Perma Moly EP #3 has an operating temperature of 30°F to 600°F,

TYPICAL PROPERTIES

NLGI	#1	#2	#3
Penetration 77°F/25°C ASTM D-217	310-340	285-295	240-250
Type Thickener	Bentone	Bentone	Bentone
Roll Stability Test (ASTM D-1831)			
% Loss In Consistency	20.3	20.3	20.2
Dropping Point ASTM D-2265	None	None	None
Rust Inhibition Test ASTM D-1743			
Rating	1,1,1	1,1,1	1,1,1
Oxidation Stability Test ASTM D-942			
PSI Loss @ 100 hrs.	3.5	3.5	3.5
Timken EP Test Ok Load ASTM D-2509	60 lbs.	60 lbs.	60 lbs.
Four Ball Wear Test (ASTM D-2266)			
Scar Diameter	.68 mm	.70 mm	.70 mm
Four Ball EP Test (ASTM D-2596)			
Load Wear Index	43	46.25	46.70
Weld Point, kg	315	315	315
Falex Continuous Load (ASTM D-3233)			
Failure, lbs.	1250	1500	1750

Typical Properties Continued on Next Page

TYPICAL PROPERTIES (Continued)

NLGI	#1	#2	#3
Water Washout Test (ASTM D-1264)			
% Loss @ 175°F	8.5	8	8
Water Spray-off (ASTM D-4049)			
% Loss	38	35	35
Wheel Bearing Leakage Test (ASTM D-1263)			
Leakage, grams	0.6	0.6	0.6
Deposits	No Deposits	No Deposits	No Deposits
Oil Separation (ASTM D-1742)			
% Wt. of Oil Separation	3	2.5	2.5
Evaporation Loss			
% Loss 22 hrs. @ 250°F	0.9	0.9	0.9
Lincoln Ventmeters			
Psi @ 100°F	350	350	350
Psi @ 30°F	750	800	800
Psi @ 0°F	1050	1050	1050
Psi @ -10°F	1250	----	----
Base Oil Properties			
Viscosity SUS 100°F ASTM D-445	1200	1500	2200
Viscosity Cst 40°C ASTM D-445	226.18	282.04	413.11
Viscosity Cst 100°C ASTM D-445	18.5	21.95	30.18
Viscosity Index	100	105	110
Flash Point °F/°C ASTM D-92	510°/265.5°	520°/271.1°	560°/293°
Fire Point °F/°C ASTM D-92	580°/304.4°	590°/310°	630°/332°

Packaging: #260 Perma Moly EP is available in (net weights) 420 lb. drums, 120 lb. drums, 40 lb. pails, 4-7 lb/cs and cartridges (50 per case).