



TECHNICAL DATA

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#260 PERMA MOLY EP

Perma MolyEP is a versatile, multipurpose extreme pressure, anti-wear, bentone base high temperature grease that is specially formulated for use in the lubrication of industrial bearings and machinery operating under heavy loads and exposed to high temperatures.

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 a bentone thickener system, which allows Perma MolyEP the ability to lubricate the bearings effectively up to temperatures of 500-600°F (260° to 316°C).

Incorporated into this blend of 100% pure paraffin base stocks and inorganic thickener is a unique combination of molybdenum disulfide, synthesized moly and other solid lubricants. This combination of molybdenum disulfide, synthesized moly and other solid lubricants 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, synthesized moly's and other solid lubricant's affinity for metal surfaces. Both forms of moly and other solid lubricants 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 MolyEP 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 0°F to 600°F (-18° to 316°C). Perma Moly EP #2 has an operating temperature of 25°F to 600°F (-4° to 316°C). Perma Moly EP #3 has an operating temperature of 30°F to 600°F (-1° to 316°C),

Perma Moly EP #2 has a base oil viscosity of ISO 460 and is recommended for those tough heavily loaded, low-to-moderate speed, high temperature applications that require the use of a grease that has a high base oil viscosity.

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TYPICAL PROPERTIES

NLGI	#1	#2	#3
Penetration 77°F/25°C ASTMD-217	310-340	270-295	230-250
Type Thickeners	Bentone	Bentone	Bentone
Roll Stability Test (ASTMD-1831)			
% Loss in Consistency	20.3	20.3	20.2
Dropping Point ASTMD-2265	None	None	None
Rust Inhibition Test ASTMD-1743			
Rating	1,1,1	1,1,1	1,1,1
Oxidation Stability Test ASTMD-942			
PSI Loss @ 100 hrs.	3.5	3.5	3.5
Timken EP Test Ok Load ASTMD-2509	60 lbs.	60 lbs.	60 lbs.
Four Ball Wear Test (ASTMD-2266)			
Scar Diameter	.68 mm	0.65 mm	0.7 mm
Four Ball EP Test (ASTMD-2596)			
Weld Point, kg	315	400	315
Falex Continuous Load (ASTMD-3233)			
Procedure A Failure, lbs.	1250	1900	1750
Water Washout Test (ASTMD-1264)			
% Loss @ 175°F (79°C)	8.5	8	8
Water Spray-off (ASTMD-4049)			
% Loss	38	35	35
Wheel Bearing Leakage Test (ASTMD-1263)			
Leakage, grams	0.6	0.6	0.6
Oil Separation (ASTMD-1742)			
% Wt. of Oil Separation	3	2.5	2.5
Evaporation Loss			
% Loss 22 hrs. @ 250°F (121°C)	0.9	0.9	0.9

Base Oil Properties

Viscosity SUS 100°F ASTMD-445	1200	2513.2	1500
Viscosity cSt 40°C ASTMD-445	226.18	470	282.04
Viscosity CSt 100°C ASTMD-445	18.5	31.5	21.95
Viscosity Index	100	100	105
Flash Point °F/°C ASTMD-92	510°/266°	560°/293°	520°/271°
Fire Point °F/°C ASTMD-92	580°/304°	630°/332°	590°/310°

Packaging: 260 Perma Moly EP is available in (net weights) 420lb drums, 120lb kegs, 40lb pails and cases (30 tubes per case).