

SUPERIOR 3M EP

Extreme Pressure Grease with 3% MoS₂ (“Moly”)

SUPERIOR 3M EP is a stable long-life lithium complex-thickened grease for use in heavily loaded equipment where robust protection is needed. It contains 3% molybdenum disulfide for additional wear protection, especially when re-lubrication is infrequent.

SUPERIOR 3M EP provides outstanding protection under extreme conditions as indicated by the Four Ball test results shown below. This has been done while minimizing the use of chemically active EP additives which degrade the thickener and shorten the life of the grease.

A special polymer improves adhesion to metal and causes the grease to repel water. SUPERIOR 3M EP also contains additives to prevent rust on ferrous metal and corrosion on copper and its alloys.

SUPERIOR 3M EP is formulated to exceed the requirements of the CAT Specification MPGM.

SUPERIOR 5M EP can be made available with 5% molybdenum disulfide.

BENEFITS:

- LONG LIFE – reducing labor and material costs.
- WATER RESISTANCE – blocks entry of water into bearings
- HEAVY DUTY – recommended for use on slow and medium-speed bearings and bushings under moderate to very heavy load.

APPLICATIONS:

AUTOMOTIVE AND EARTHMOVING APPLICATIONS – Wheel bearings, slewing bearing, vehicle chassis points and U-joints, as well as pins & bushings.

WATER & CONTAMINANTS – suction and end rolls on papermaking machines, lower bearing of Archimedes screws, boat trailer wheel bearings and other wet applications.

HIGHLY LOADED EQUIPMENT – Pellet mills, shaker screens, belt conveyors, centrifuges, hammermills, fan bearings.

ASTM #	CHARACTERISTICS				
	Grade	Arctic	0	1	2
D-217	Cone Penetration, (Worked)	355-385	355-385	310-340	265-295
D-2265	Dropping Point, °F (°C)	450 (232)	500 (260)	507 (264)	507 (264)
D-445	Kinematic Viscosity csSt @ 40°C	65	200	200	200
D-2596	Four Ball EP Weld Point, kg	400	800	800	800
	Solid Lubricant (MoS ₂) %	3	3	3	3
	Ventmeter, PSI after 30 seconds at -30°F (-35°C)	400	480	610	640
	Temperature Limit (High Temp Industrial Applications) °F °C	250 120	300 150	300 150	300 150
	Ambient Temperature Limit (Mining) °F °C	60 15	60 15	90 32	120 49

The above are typical values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

