



Monolec® Extend EM Grease (1282)

Polyurea Grease Prolongs Life of Electric Motor Bearings

Formulated with polyurea thickener and designed specifically for use in electric motor bearings, Monolec® Extend EM Grease offers superior mechanical stability for long service life. It features low bleed characteristics, excellent pumpability and great oxidation resistance. It is especially effective when severe industrial operating conditions such as extreme temperatures and high speeds are present.



Beneficial Qualities

Enhances Performance & Reliability

- Helps bearings run cooler and last longer
- Increases efficiency of motor by decreasing drag
- Exhibits superior mechanical stability
- Provides long service life without any change in consistency
- Experiences low oil separation; will not bleed into motor's windings
- Possesses extreme pressure characteristics

Resists Heat & Other Extreme Conditions

- Exhibits high dropping point
- Is extremely resistant to oxidation
- Maintains excellent pumpability at low temperatures
- Experiences very low evaporation rate

Withstands Water

- Provides superior water spray-off resistance
- Maintains mechanical stability in presence of water
- Protects against rust and corrosion

Available Grades

- NLGI 2



Proprietary Additives

LE's proprietary additives are used exclusively in LE lubricants. Monolec Extend EM Grease contains Monolec.

Monolec® wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing oil film strength without affecting clearances. An invaluable component in LE's engine oils, industrial oils and many of its other lubricants, Monolec allows opposing surfaces to slide by one another, greatly reducing friction, heat and wear.



Monolec® Extend EM Grease

	<u>1282</u>
Thickener Type	Polyurea
Texture	Smooth w/ Slight String
Color	Purple
NLGI Grade	2
Worked 60 Penetration ASTM D217	275
Worked 10K Penetration ASTM D217	277
Worked 100K Penetration ASTM D217	299
Dropping Point °C (°F), ASTM D2265	271 (520)
Base Fluid Characteristics	
Viscosity @ 100°C, cSt, ASTM D445	14.00
Viscosity @ 40°C, cSt, ASTM D445	145.0
Oxidation drop in psi @ 100 hrs, ASTM D942	3
Corrosion Prevention DI H₂O, ASTM D1743	Pass
Oil Separation 30 hrs @ 100°C, % bleed, ASTM D6184	<2.0
Timken OK Load lbs, ASTM D2509	50
Four-Ball EP Weld Point kgf, ASTM D2596	620
Water Spray-off % loss, ASTM D4049	10.0
Copper Corrosion 24 hrs @ 100°C, ASTM D4048	1b
Evaporation 22 hrs @ 100°C, % loss, ASTM D972	<1.0
Grease Mobility 100 psi @ -18°C (0°F), gm/sec, USX Mobility procedure	0.039



Recommendations

- Operating Temperature Range: -23°C (-10°F) to 204°C (400°F)
- The best practice is to avoid mixing different lubricants.
- When converting from another lubricant to Monolec Extend EM Grease (1282), it is always best practice to disassemble the equipment and remove all of the old lubricant prior to introducing the new grease.
- If it is not possible to disassemble the equipment, purge the old lubricant with Monolec 1282 and shorten the relubrication interval. Purge again with Monolec 1282 and closely monitor.

Typical Applications

- Electric motor bearings
- Automotive bearings in generators, alternators and starters
 - Not for wheel bearings and automotive chassis applications

Containers

- Tubes (40 per case)
- Pails (35 lbs / 15.9 Kg)
- Perma® single-point lubrication systems

