



## 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*

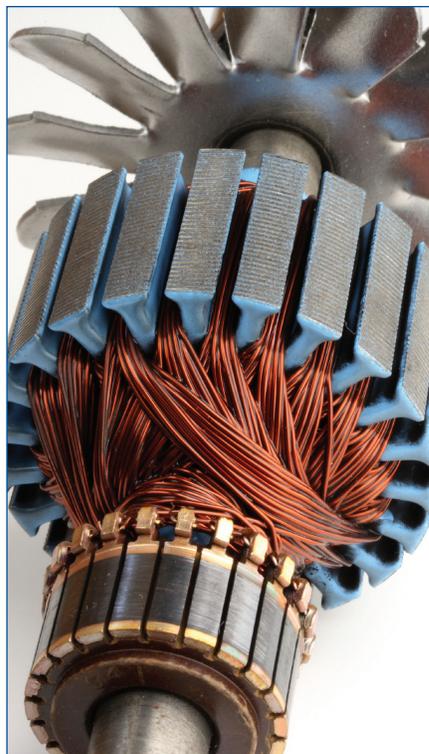
- Helps bearings run cooler and last longer
- Increases efficiency of motor by decreasing drag
- Exhibits superior mechanical stability
- Provides long service life without any change in consistency
- Experiences low oil separation; will not bleed into motor's windings
- Possesses anti-wear characteristics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

##### *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

#### 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>
<b>Thickener Type</b>	Polyurea
<b>Texture</b>	Smooth
<b>Color</b>	Purple
<b>NLGI Grade</b>	2
<b>Worked 60 Penetration ASTM D217</b>	280
<b>Worked 10K Penetration ASTM D217</b>	±5%
<b>Worked 100K Penetration ASTM D217</b>	±8%
<b>Dropping Point °C (°F), ASTM D2265</b>	280 (536)
<b>Base Fluid Characteristics</b>	
<b>Viscosity @ 100°C, cSt, ASTM D445</b>	11.2
<b>Viscosity @ 40°C, cSt, ASTM D445</b>	100
<b>Oxidation drop in psi @ 100 hrs, ASTM D942</b>	<5
<b>Corrosion Prevention DI H<sub>2</sub>O, ASTM D1743</b>	Pass
<b>Oil Separation 30 hrs @ 100°C, % bleed, ASTM D6184</b>	<2.0
<b>Four-Ball Wear @ 75°C, 1200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D2266</b>	0.5
<b>Copper Corrosion 24 hrs @ 100°C, ASTM D4048</b>	1b
<b>Evaporation 22 hrs @ 100°C, % loss, ASTM D972</b>	<1.0

### 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.

### Performance Requirements Met or Exceeded

- USDA H2

### Typical Applications

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



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