



Shop Tech Talk August 2011



Polyrex EM Grease vs Lithium Base Grease in Electric Motors



Mobil Polyrex EM greases are recommended by many major bearing and electric motor manufacturers for long-life lubrication of electric motor ball and roller bearings.

Grease Thickener Compatibility Chart

	Aluminum Complex	Barium Complex	Calcium Stearate	Calcium 2 Hydroxy	Calcium Complex	Calcium Sulfonate	Clay Non-soap	Lithium Stearate	Lithium 2 Hydroxy	Lithium Complex	Polyurea Conventional	Polyurea Shear Stable
Aluminum Complex	I	I	I	C	I	B	I	I	I	C	I	C
Barium Complex	I	I	I	C	I	C	I	I	I	I	I	B
Calcium Stearate	I	I	I	C	I	C	C	C	B	C	I	C
Calcium 2 Hydroxy	C	C	C	I	B	B	C	C	C	C	I	C
Calcium Complex	I	I	I	B	I	I	I	I	I	C	C	C
Calcium Sulfonate	B	C	C	B	I	I	I	B	B	C	I	C
Clay Non-soap	I	I	C	C	I	I	I	I	I	I	I	B
Lithium Stearate	I	I	C	C	I	B	I	I	C	C	I	C
Lithium 2 Hydroxy	I	I	B	C	I	B	I	C	I	C	I	C
Lithium Complex	C	I	C	C	C	C	I	C	C	I	I	C
Polyurea Conventional	I	I	I	I	C	I	I	I	I	I	I	C
Polyurea Shear Stable	C	B	C	C	C	C	B	C	C	C	C	I

= Borderline
 = Compatible
 = Incompatible

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Mobil Polyrex EM greases have been shown to be compatible with a number of ExxonMobil lithium complex greases, as well as competitive electric motor mineral polyurea products, as determined by the methodology of ASTM D6185.

Mobil Polyrex EM 103 is more specifically recommended for applications such as vertically mounted bearings, or very large motors where a stiffer grease consistency may be required by the OEM, and low noise properties are not required.

Mobil Polyrex EM features proprietary shear stable polyurea thickener technology and is not a conventional polyurea.

The compatibility guide above is only a guide. Because of the importance of grease incompatibility and to be safe rather than sorry my advice would be ALWAYS to call your lubricant supplier to get the answers you need.

Holland Industrial is committed to using this Mobil Polyrex EM grease because we believe it has the best possible features necessary for a long and quiet life of the electric motor bearings used in the electric motors we repair.

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