



CITGO IDEAL® EC OIL 691B

Date 01/05

- DESCRIPTION:** CITGO Ideal® EC Oil 691B is a food grade compressor lubricant designed specifically for ethylene hyper-compressors, and has been tested and approved by Sulzer Burckhardt. This product exceeds the requirements of the US FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with food for human consumption. CITGO Ideal EC Oils are currently used in a variety of compressors used in high and low density polyethylene service.
- QUALITIES:** CITGO Ideal® EC Oil 691B is formulated from high viscosity index paraffinic food grade white mineral oils to provide excellent film strength, and control of high pressure viscosity increase. It is polymer optimized for good high pressure sealing and low pressure viscosity increase.
- CITGO Ideal® EC Oil 691B is suitably inhibited for oxidation stability, and metal passivation to provide corrosion protection even in the presence of moisture and acidic co-polymers.
- CITGO Ideal® EC Oil 691B contains no oleic acid, but contains a special lubricity additive for optimum wear protection. It is formulated to reduce bronze packing wear and tungsten carbide plunger wear while providing improved dynamic sealing.
- CITGO Ideal® EC Oil 691B is certified Kosher (passover) by the Union of Orthodox Jewish Congregations of America ®.
- APPLICATIONS:** CITGO Ideal® EC Oil 691B provides effective cylinder lubrication for ethylene hyper compressors equipped with piston ring cylinder, packed plunger cylinder and modified (pressure wrapped) packed plunger cylinder types.

TYPICAL PROPERTIES:

CITGO IDEAL® EC OIL 691 B

ISO VIS Grade	115
Material Code	669453001
Gravity, ASTM D 4052, °API	30.0
Specific Gravity at 25°C, ASTM D 1298	0.870
Flash Point, ASTM D 92, °F	420
Viscosity, ASTM D 445, cSt at 40°C	115
Base Oil Viscosity, at 100°C	10.6
ASTM D 2161, SUS at 100°F	600
Pour Point, ASTM D 97, °F (°C)	+20 (-7)
Color, Saybolt, ASTM D 156	+20
Soluble in ethylene	Yes
FDA, 21CFR 178.3570	✓
Kosher	Ⓢ