



## Mobil Rarus™ PE KPL 220

Mobil Industrial, Italy

Ethylene and co-monomers compressor oil

### Product Description

Mobil Rarus™ PE KPL 220 is an ISO VG 220 Ethylene and co-monomers compressor oil. It is based on a patented combination of high purity, saturated hydrocarbon oils, supplemented with friction-reducing and free-radical trap additives at adapted treat levels.

### Features and Benefits

- Low reactivity components. Do not interfere with polymerization reactions.
- High purity components. Do not induce any discoloration or odor in the final polymer.
- Components approved for food contact. Suitable for the manufacture of polymers for food packaging containers.
- Low polarity. Suitable in the manufacture of polymers for electrical insulation and thin sheets (plastic bags).
- High pumpability. Adequate flow of lubricating oil and improved cylinder lubrication at very high pressure.
- Reduced maintenance shutdowns.
- Outstanding anti-wear and corrosion protection enhances equipment life and performance.

### Applications

Mobil Rarus PE KPL 220 is specifically designed for the lubrication of very high pressure ethylene and co-monomers compressors. It may be used up to 3800 bars, according to oil injection system and temperature.

Mobil Rarus PE KPL 220 is formulated for the most demanding applications. Its viscosity and composition are tailored for the highest pressures found in ethylene compressors for LDPE production. The viscosity increase under the highest pressures remains low enough to ensure an adequate flow of lubricating oil.

Additives also prevent the early polymerization of reactive gas components and impurities into the compressor itself, which may lead to formation of deposits, and eventually to lubrication failure. Additives also mitigate friction losses and may improve cylinder packing life. As a result, shutdowns for maintenance, are less frequent.

Mobil Rarus PE KPL 220 meets or exceeds the requirements of:	
European Regulation (EU) 2015/174	X
US Pharmacopeia <661> (vol. 1, 2008)	X
FDA 21 CFR 177.1520	X
FDA 21 CFR 178.3570	X
Burckhardt Pumpability certificate for hyper compressors for pressures up to 3850 bars at a minimum temperature of 70 °C for a pump speed of 164 rpm	X
Burckhardt Pumpability certificate for hyper compressors for pressures up to 3896 bar at a minimum temperature of 70 °C for a pump speed of 250 rpm	X

Mobil Rarus PE KPL 220 is registered to the requirement of:	
NSF H1	X

Mobil Rarus PE KPL 220 is registered to the requirement of:	
NSF Registration Number	155659

## Typical Properties

Test Method	Test	Units	Mobil Rarus PE KPL 220
Density at 15°C (typical)	ASTM D4052	kg/m <sup>3</sup>	874
Kinematic viscosity at 40°C (typical)	ASTM D 445	mm <sup>2</sup> /s	210
Color, Saybolt (typical)	ASTM D156		+30
Flash Point (typical)	ASTM D 92	°C	270
Pour Point (max)	ASTM D 97	°C	- 12
Acid number (typical)	ASTM D 974	mg KOH/g	0.5
Water content (max)	ASTM D 6304	ppm	<100

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet or will be provided by seller to customers if and as legally required. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Esso Italiana s.r.l.

Via Castello della Magliana 25  
00148, Roma, Italia

800.011723

<http://www.exxonmobil.com>

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)

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