

ExxonMobil 221 Mobilgrease FM

Category : Fluid , Lubricant , Aluminum Gellant

Material Notes:

Mobilgrease FM 221 and FM 222 are high performance multi-purpose products designed specifically for the lubrication of food processing machinery. Mobilgrease FM 221 and FM 222 are formulated with components meeting the requirements of CFR 178.3570, Chapter 21, and are NSF registered as H1 classified lubricants. Food processing equipment often operates in a variety of environments, covering the extremes of temperatures from oven to freezer operations, as well as a high level of contamination from water, steam and cleaning agents. Mobilgrease FM 221 and FM 222 were developed as mid-viscosity, multipurpose grease lubricants capable of providing excellent lubrication in all of these environments. Mobilgrease FM 221 and FM 222 are engineered with excellent water resistance to withstand periodic washdown and cleaning operations frequent in the food processing industry. Rust inhibition is a critical property for the industry. Mobilgrease FM 221 and FM 222 are formulated with an excellent rust inhibition package which, working in concert with the water resistance properties, will provide protection against rust. The ISO VG 220 base oil viscosity coupled with excellent thickener shear stability translates into an ability to provide lubrication over a wide range of speeds, loads and temperatures. Mobilgrease FM 221 and FM 222 are also formulated to handle a variety of loads, exhibiting good protection against wear and shock load conditions. Mobilgrease FM 221 and FM 222 were designed to meet many global performance and cultural requirements, including: HSF H1 Registered; DIN 51825 KPF1K -20 (for Mobilgrease FM 221); DIN 51825 KPF2K-20 (for Mobilgrease FM 222); Kosher/Parve; Halal. Mobilgrease FM 221 and FM 222 greases are recommended for multi-purpose lubrication of food processing equipment where NSF H1 registration is required. The food industry includes food processing, beverage, medical and packing industries for a wide range of cultures. Applications include: General rotating equipment lubrication; Conveyor bearings; Equipment central lubrication systems (FM 221); Anti-friction roller bearings under heavy or shock loading; Linkages and slides; Joints

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http://www.lookpolymers.com/polymer_ExxonMobil-221-Mobilgrease-FM.php

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	220 cSt	220 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Weld Load	315 kg	695 lb (mass)	ASTM D2596
Four Ball Wear	0.500 mm	0.0197 in	ASTM D2266
Penetration	15	15	Penetration Consistency Change, 100000 Stroke, Change from Worked Pen, mm/10; ASTM D1831
	325	325	Worked, 25°C, mm/10; ASTM D217

Thermal Properties	Metric	English	Comments
Dropping Point	260 °C	500 °F	ASTM D2265

Descriptive Properties	Value	Comments
Color	white	
Copper Strip Corrosion, ASTM D4048	1B	
Corrosion Prevention, ASTM D1743	pass	
Grease Life, DIN 51821 (FE-9), hours	100 (min)	@ 120°C
Soap/Thickener Type	aluminum complex	

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