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REPSOL

UNITED FULLY SYN INDUSTRIAL GEAR & BEARING OIL

Product Description

Fully Synthetic Industrial Gear & Bearing Oil formulated with proprietary synthetic polyalphaolefin (PAO) base and ester technology with performance additives to enhance oxidation stability, optimize foam control, ensure exceptional stability in the presence of water, and provide protection against rust, corrosion, and wear. The inclusion of synthetic base oils extends the oil's lifespan compared to conventional mineral oils.

This product possesses a naturally high viscosity index (VI) compared to mineral oils, enabling it to exhibit lower viscosity at low temperatures for improved flow and reliable equipment startup, while maintaining higher viscosity at elevated temperatures to ensure effective wear protection.

Applications / Benefits

* Improved foam control and excellent stability in presence of water
* Superior anti-wear performance and low traction coefficient
* Better high-temperature oxidation stability
* Outstanding anti-rust and corrosion properties

Typical Characteristics

Test Description	Method	Unit				
ISO Viscosity Grade	-	-	**ISO 32**	**ISO 46**	**ISO 68**	**ISO 100**
Density @ 15 °C	ASTM D 4052	kg/L	0.845	0.851	0.865	0.8728
Flash Point	ASTM D 92	°C	245	250	254	250
Pour Point	ASTM D 97	°C	-51	-45	-42	-39
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	32.2	46.3	68.1	98.8
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	6.1	7.9	10.6	15.6
Viscosity Index	ASTM D 2270	-	140	142	145	165

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Typical Characteristics

Test Description	Method	Unit				
ISO Viscosity Grade	-	-	**ISO 150**	**ISO 220**	**ISO 320**	**ISO 460**
Density @ 15 °C	ASTM D 4052	kg/L	0.8842	0.8925	0.9119	0.9201
Flash Point	ASTM D 92	°C	254	258	260	262
Pour Point	ASTM D 97	°C	-36	-33	-30	-27
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	153.2	223.5	324.1	465.5
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	22.1	29.5	39.7	53.7
Viscosity Index	ASTM D 2270	-	171	172	175	181

Typical Characteristics

Test Description	Method	Unit	
ISO Viscosity Grade	-	-	**ISO 680**
Density @ 15 °C	ASTM D 4052	kg/L	0.9289
Flash Point	ASTM D 92	°C	265
Pour Point	ASTM D 97	°C	-24
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	680.0
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	69.3
Viscosity Index	ASTM D 2270	-	185

Suggested for the following Uses

* AGMA 9005-F16 AS
* DAVID BROWN S1.53.101 TYPE M
* DAVID BROWN S1.53.101 TYPE A
* DAVID BROWN S1.53.101 TYPE E
* DIN 51517 PART 1
* DIN 51517 PART 2
* DIN 51517 PART 3
* FIVES CINCINNATI EP GEAR OILS
* GM LS 2 EP GEAR OIL
* ISO 12925-1 CKC/CKD
* U.S. STEEL 224

Reference No.
6511G45REV0

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