

UNT ICL DIAMOND

INDUSTRIAL GEAR OIL

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.

Properties

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

Technical Characteristics

Test Description	Method	Unit				
ISO Viscosity Grade	-	-	ISO 32	ISO 46	ISO 68	ISO 100
Density @ 15 °C	ASTM D 4052	kg/L	0.8445	0.8510	0.8649	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	6.11	7.91	10.64	15.6
Viscosity Index	ASTM D 2270	-	140	142	145	165

Technical Characteristics

Test Description	Method	Unit				
SAE Viscosity Grade	SAE J 300	-				
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	22.05	29.5	39.68	53.7
Viscosity Index	ASTM D 2270	-	171	172	175	181

Technical Characteristics

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

Specifications

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

27-11-24
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