



United Oil
PERFORMANCE • VALUE • RELIABILITY

UNITED FULLY SYN INDUSTRIAL GEAR & BEARING OIL

Product Description:

United Fully-Syn industrial Gear & Bearing Oil are formulated with proprietary synthetic polyalphaolefin (PAO) base and ester technology with performance additives that enhance oxidation stability, improve foam control, maintain superior stability in the presence of water, and provide protection against rust, corrosion, and wear. Synthetic base oils provide longer oil life over conventional mineral oils.

United Fully-Syn industrial Gear & Bearing Oil has a naturally high viscosity index (VI) compared to mineral oils, providing lower viscosity at lower temperatures and higher viscosity at higher temperatures. This high VI allows the oil to flow at cold temperatures so equipment will start. It also means viscosity will be maintained at high temperatures to provide wear protection.

Applications / Benefits:

- ▮ Naturally high viscosity index, improved low-temperature fluidity, lower operating temperatures
- ▮ Superior anti-wear properties, low traction coefficient, reduced power consumption
- ▮ Better high-temperature oxidation stability, extended lubricant life
- ▮ Outstanding anti-rust and corrosion properties. Improved foam control Superior stability in presence of water (hydrolytic stability and demulsibility)

Typical Characteristics:

Test Description	Method	32	46	68	100	150
ISO Viscosity Grade	-	32	46	68	100	150
Specific Gravity @ 15 °C	ASTM D 4052	0.851	0.855	0.858	0.861	0.865
Flash Point, °C	ASTM D 92	230	232	234	235	235
Pour Point, °C	ASTM D 97	-15	-48	-48	-45	-42
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	31.0	46.0	66.0	97.0	151
cSt @ 100°C	ASTM D 445	5.8	7.7	10.3	13.7	19.7
Viscosity Index	ASTM D 2270	133	136	144	144	145
Color	ASTM D 1500	<0.5	<0.5	<0.5	<0.5	<0.5

Test Description	Method	220	320	460	680	1000
ISO Viscosity Grade	-	220	320	460	680	1000
Specific Gravity @ 15 °C	ASTM D 4052	0.871	0.860	0.876	0.861	0.889
Flash Point, °C	ASTM D 92	235	245	255	265	267
Pour Point, °C	ASTM D 97	-42	-39	-39	-39	-33
Peak Temperature, °C		300	300	300	300	300
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	222	321	456	678	995
cSt @ 100°C	ASTM D 445	25.8	35.2	47.4	63.5	78.2
Viscosity Index	ASTM D 2270	148	155	162	164	160
Color	ASTM D 1500	<0.5	<0.5	<0.5	<0.5	<1.0



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Specifications, Approvals & Recommendations:

- U.S. Steel 224
- David Brown S1.53.101
- Cincinnati EP gear oils
- AGMA 9005-E02
- DIN 51517 part 3: 2004-01
- ISO 12925-1 CKC/D

Product Data Sheet