

No. 930 Industrial Gear Lubricant

TYPICAL APPLICATIONS INCLUDE:

Industrial Gears	Speed Reducers	Precision Gears	EP Worm Gears
Spur Gears	Helical Gears	Herringbone Gears	Spiral Bevel Gears

Hydrotex® No. 930 Industrial Gear Lubricant exceeds the following industry standards:

API GL-4	AGMA 9005-F16 (AS, EP)
DIN 51517 Part 3 (Type CLP)	ISO 12925-1:1996 (Type CKD, CKC)

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES			
ISO Grade	ASTM D2422	68	100	150	220
AGMA No.		2EP	3EP	4EP	5EP
SAE Grade	SAE J306	80W	80W	80W-90	80W-110
Kinematic Viscosity, cSt @ 40°C	ASTM D445	68	100	150	220
Kinematic Viscosity, cSt @ 100°C	ASTM D445	9.5	12.0	15.7	20.1
Viscosity Index No.	ASTM D2270	118	110	107	109
Density, g/mL @ 15.6°C	ASTM D1298	0.872	0.878	0.884	0.886
Density, lb/gal @ 60 °F	ASTM D1298	7.28	7.33	7.38	7.39
Pour Point, °F (°C)	ASTM D97	-40 (-40)	-20 (-29)	-5 (-20)	0 (-18)
Flash Point, °F (°C)	ASTM D92	400 (204)	400 (204)	400 (204)	425 (219)
FZG Scuffing Test, Fail Stage A/8.3/90	ASTM D5182	12+	14+	14+	14+
FZG Scuffing Test, Fail Stage A/16.6/90	Modified ASTM D5182		12+	14+	14+
4-Ball EP, Weld Point, kgf	ASTM D2783	250	250	250	250
4-Ball Wear, scar diameter, mm	ASTM D4172	0.38	0.38	0.39	0.34
Copper Corrosion, 3 hr @ 100°C	ASTM D130	1a	1a	1a	1a
Rust Test, Distilled Water	ASTM D665A	Pass	Pass	Pass	Pass
Rust Test, Syn. Sea Water	ASTM D665B	Pass	Pass	Pass	Pass
Foaming Test, Sequence I, II, III	ASTM D892	Pass	Pass	Pass	Pass
Color		Amber	Amber	Amber	Amber

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES		
ISO Grade	ASTM D2422	320	460	680
AGMA No.		6EP	7EP	8EP
SAE Grade	SAE J306	140	--	250
Kinematic Viscosity, cSt @ 40°C	ASTM D445	320	460	680
Kinematic Viscosity, cSt @ 100°C	ASTM D445	26	32.4	42.1
Viscosity Index No.	ASTM D2270	109	102	106
Density, g/mL @ 15.6°C	ASTM D1298	0.891	0.896	0.895
Density, lb/gal @ 60 °F	ASTM D1298	7.43	7.46	7.46
Pour Point, °F (°C)	ASTM D97	5 (-15)	10 (-12)	10 (-24)
Flash Point, °F (°C)	ASTM D92	552 (289)	500 (260)	500 (260)
FZG Scuffing Test, Fail Stage A/8.3/90	ASTM D5182	14+	14+	14+
FZG Scuffing Test, Fail Stage A/16.6/90	Modified ASTM D5182	14+	14+	14+
4-Ball EP, Weld Point, kgf	ASTM D2783	250	315	315
4-Ball Wear, scar diameter, mm	ASTM D4172	0.45	0.35	0.34
Copper Corrosion, 3 hr @ 100°C	ASTM D130	1a	1a	1a
Rust Test, Distilled Water	ASTM D665A	Pass	Pass	Pass
Rust Test, Syn. Sea Water	ASTM D665B	Pass	Pass	Pass
Foaming Test, Sequence I, II, III	ASTM D892	Pass	Pass	Pass
Color		Amber	Amber	Amber

WARRANTY:

When properly stored and used in accordance with instructions, any material not satisfactory will be replaced with any product in our line on a dollar for dollar basis provided the account is paid in full when due and Hydrotex is notified in writing within 12 months of the date of the order by the customer.

Hydrotex® is a manufacturer and distributor of high performance lubricant and fuel improver solutions. As an employee owned company, we help our customers develop sustainable solutions designed to improve system reliability, save energy, limit pollution, extend fixed asset life, reduce maintenance costs and improve fuel efficiency. Our products and services leverage over 80 years of innovation resulting in superior lubrication solutions and high touch customer service.