

Hydrotex® SYN-Nth™ Gear Oils offer the Nth Degree of Energy Saving for lubricating gearboxes by reducing peak electric demand on start-up and wattage consumption during continuous operations. **SYN-Nth Gear Oils** are based on advanced synthetic hydrocarbon technology that minimizes viscosity changes at temperature extremes. **Superior Wear Protection** will protect your gears and bearings even under extreme loads. **Outstanding Oxidation Stability** allows significantly longer oil drain intervals and less gear surface deposits. **SYN-Nth Gear Oils** use non-toxic components for improved environmental protection and are inherently biodegradable in accordance with OECD 301 B Test method.



 Lubricants for a Healthier Planet™

TYPICAL APPLICATIONS INCLUDE:

Wind Turbines	Industrial Gears	Planetary Gear Sets	Speed Reducers
Precision Gears	Transmissions	Spur Gears	Helical Gears
Herringbone Gears	Spiral Bevel Gears	Worm Gears	

Hydrotex SYN-Nth™ Gear Oil meets or exceeds the following standards:

AGMA 9005-F16 AS	ISO 12925-1 CKT	DIN 51517-3 CLP
JIS K 2219 Class 2	API GL-4	Fives Cincinnati P-77/74/59/35/34

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES				
ISO Grade	ASTM D2422	150	220	320	----	460
AGMA No.		4	5	6	----	7
SAE Grade	SAE J306	80W-110	80W-140	80W-190	----	250
Kinematic Viscosity, cSt @ 40°C	ASTM D445	150	220	320	390	460
Kinematic Viscosity, cSt @ 100°C	ASTM D445	21.4	29.0	37.7	43.6	49.2
Viscosity Index No.	ASTM D2270	167	170	167	167	167
Density, g/mL @ 15.6°C	ASTM D1298	0.8813	0.8874	0.8953	0.8992	0.9027
Density, lb/gal @ 60°F	ASTM D1298	7.355	7.406	7.471	7.504	7.533
Pour Point, °F (°C)	ASTM D97	-38 (-39)	-33 (-36)	-27 (-33)	-27 (-33)	-27 (-33)
Flash Point, °F (°C)	ASTM D92	410 (208)	425 (219)	430 (221)	440 (227)	450 (232)
4-Ball EP, Weld Point, kgf	ASTM D2596	250	250	250	250	315
4-Ball Wear, scar diameter, mm	ASTM D2266	0.35	0.36	0.33	0.33	0.36
FZG Scuffing Test						
Fail Stage, FZG A/16.6/90	Modified	14+	14+	14+	14+	14+
Fail Stage, FZG A10/16.6R/90	ASTM D5182	----	----	12	12	----
FAG FE8 Bearing Test						
Roller wear, mg	DIN 51819-3	----	----	< 2	----	----
Pressure DSC Oxidation Induction Time, min @ 185°C	ASTM D5483	82.5	82.5	82.5	82.5	82.5
Copper Corrosion, 3 hr @ 100°C	ASTM D130	1a	1a	1a	1a	1a
Rust Test, Distilled Water	ASTM D665A	Pass	Pass	Pass	Pass	Pass
Rust Test, Syn. Sea Water	ASTM D665B	Pass	Pass	Pass	Pass	Pass
Foaming Test, Seq. I, II, and III	ASTM D892	Pass	Pass	Pass	Pass	Pass
Color	----	Light 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.