



PRODUCT DATA SHEET

NP INDUSTRIAL SYN-TEC GEAR OIL TK

GENERAL

NP Industrial Syn-Tec Gear Oil TK is a premium quality synthetic lead-free, extreme pressure (EP) gear oil utilizing sulphur-phosphorus EP technology. It has the additional advantage of a tackifier which allows for resistance to flinging and the formation of a tenacious film which resists run off. It is also extremely cohesive and adhesive.

NP Industrial Syn-Tec Gear Oil TK is manufactured from premium quality synthetic energy efficient base oils and are blended with a special “Clean Gear Technology” additive package. The use of NP Industrial Gear Oil TK results in:

- Anti-wear performance
- Thermal stability
- Corrosion protection
- Anti-foam properties
- Oxidation stability
- Cleaner Gear Sets

KEY BENEFITS

The use of **NP Industrial Syn-Tec Gear Oils TK** would result in:

- Minimizing wear of heavy and shock loaded enclosed gears.
- High load carrying capacity in steel gear transmissions.
- Good anti-friction characteristics in steel/phosphor-bronze gear units.
- Less downtime and longer gear-set working life.
- Good oxidative and thermal stability in systems with bulk oil temperatures up to 100°C.
- Minimizing of harmful sludge and emulsions.

MAIN APPLICATIONS

- Recommended where the use of EP lubricants are specified or required.
- Enclosed industrial gear drives, including worm gears.
- Steel/Phosphor-bronze gear sets
- High load carrying capacity in steel gear transmissions except for automotive hypoid gears.

PERFORMANCE SPECIFICATIONS

The **NP Industrial Syn-Tec Gear Oil** range of lubricants meets or exceeds the test requirements of:

- AIST (Formerly US Steel) 224
- AGMA 9005 – E-02
- David Brown S1.53.101E
- DIN 51517 Part 3
- API GL-5, GL - 4



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TYPICAL PROPERTIES

	TEST METHOD		
NP Industrial Gear Oils		1000 TK	1500TK
ISO Viscosity Grade	ISO 3448	1000	1500
Kin. Viscosity @ 40°C, cSt	ASTM D445	1052	1481
Kin. Viscosity @ 100°C, cSt	ASTM D445	92.10	110.37
Viscosity Index	ASTM D2270	165	168
Pour Point, °C	ASTM D97	-9	-9
Closed Flash Point, °C	ASTM D93	212	220
Specific Gravity 60/60°F	ASTM D1298	0.8924	0.9016
Timken, OK Load lbs, min	ASTM D2782	60	65
Four-Ball E.P. Weld Point kgf, min	ASTM D2596	315	315
FGZ Gear Test (A/8.3/90) Pass Load Stage, min	-	>12	>12
Rust Prevention			
Distilled Water	ASTM D665A	Pass	Pass
Synthetic Sea Water	ASTM D665B	Pass	Pass

HEALTH AND SAFETY

NP Industrial Syn-Tec Gear Oil TK is unlikely to pose any health or safety hazards when used in the recommended applications, provided good standards of personal and industrial hygiene are observed. Please refer to Material Safety Data Sheet (MSDS) for further information.

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