



Industrial Gear Oil TK

WORLD CLASS LUBRICANTS
FOR TROPICAL CONDITIONS

GENERAL

Ultra Industrial Gear Oil TK is a premium quality, 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.

Ultra Industrial Gear Oil TK is manufactured from premium quality hydro-treated base oils, which contain lower levels of impurities, and are blended with a special "Clean Gear Technology" additive package. Without these impurities, that limits the performance of conventional base oils, 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 **Ultra Industrial 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 **Ultra Industrial 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

TYPICAL PROPERTIES

	TEST METHOD			
NP Industrial Gear Oils		800 TK	1000TK	3200TK
ISO Viscosity Grade	ISO 3448	800	1000	3200
Kin. Viscosity @ 40°C, cSt	ASTM D445	800	1000	3190
Kin. Viscosity @ 100°C, cSt	ASTM D445	39.76	44.80	85.75
Viscosity Index	ASTM D2270	124	118	105
Pour Point, °C	ASTM D97	-9	-9	-6
Closed Flash Point, °C	ASTM D93	212	220	228
Specific Gravity 60/60°F	ASTM D1298	0.9189	0.9260	0.925
Rust Prevention				
Distilled Water	ASTM D665A	Pass	Pass	Pass
Synthetic Sea Water	ASTM D665B	Pass	Pass	Pass

HEALTH AND SAFETY

Ultra Industrial 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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