



5,6,7 EP/RT

PRODUCT DESCRIPTION

I-tech series of industrial gear oils are fully formulated highly adhesive, lead-free extreme pressure gear oils with red indicator dye. These gear oils are designed to exceed the requirements of US Steel 224, AGMA 9005-D94.04, Cincinnati Milacron P-59DIN51517 part 3 and David Brown ET 33/80 specifications for EXTREME PRESSURE gear oils.

FEATURES

- I-tech series gear oils with their synergistic blend of additives exhibit extremely high load bearing capability, without the use of lead or chlorine based additives.*
- I-tech series gear oils are specially formulated with highly thermally stable extreme pressure additives and these, in conjunction with a synergistic blend of oxidation inhibitors, give outstanding high temperature performance, resistance to viscosity increase and sludge formation.*
- I-tech series gear oils have a high level of adhesion and metal wetting properties to resist sling off and leakage, ensuring maximum gear protection.*
- I-tech series gear oils show very impressive water separation properties.*
- I-tech series gear oils, as a result of the complete additive system, provide excellent corrosion protection to both ferrous and copper-based alloys.*
- I-tech series industrial gear oils are recommended for all enclosed gears and speed reducers where an AGMA (4 through 8) oil is required.*
- I-tech series resists staining of yellow metals and resists foaming.*

Description	ASTM Test Method	Conditions			
PRODUCT CODE			5 EP/RT	6 EP/RT	7 EP/RT
Appearance			Clear, adhesive	Clear, adhesive	Clear , adhesive
color			Dark red	Dark red	Dark red
ISO VG			220	320	460
SAE#			90	90/140	140
AGMA #			5 EP	6 EP	7 EP
Viscosity, cSt	D-445	40C	220	320	460
Viscosity, cSt	D-445	100C	19.5	25.5	32.5
Viscosity Index	D-2270		100	102	104
Flash Point C	D-92	COC	235	245	250
Fire Point, C	D-92	COC	285	295	300
Pour Point, C	D-97		-20	-18	-16
Density, lb/gal.	D-1298		7.4	7.45	7.48
Timken OK load, lbs	D-2780		80	85	85
4 Ball wear scar, mm	D-2266	1200 rpm, 167F, 40kg, 1hr	0.3	0.3	0.3
4 Ball EP	D-2783				
Weld Load, Kg.			300	300	300
LWI, Kg.			55	55	55
FZG failure stage	DIN51354		13	13	13
Falex EP	D-3233				
Failure load, lbs			1750	2000	2000
Torque @ failure			20	21	25
Torque @ 1000 lbs			15	14	12
Copper Corrosion	D-130	3 hrs @ 100 C	1	1	1
Turbine Rust Test	D-665				
Distilled Water			Pass	Pass	Pass
Salt Water			Pass	Pass	Pass
Demulsibility	D-1405	82.2 C			
Oil-water-emulsion, ml			39-45-0 (15)	39-45-0(15)	39-45-0(15)
Demulsibility	D-2711				
Free water, ml			87	86	86
Oil in water			Trace	Trace	Trace
Emulsion			0.2	0.1	Trace

