



US LUBE

US LUBE INDUSTRIAL GEAR OIL

Product Description:

US Lube Industrial Gear Oils comprise a family of extreme pressure gear lubricants designed to operate over a very wide range of temperatures and conditions. These fluids possess excellent high temperature oxidation stability and superior low temperature fluidity. US Lube Industrial Gear Oils have the ability to rapidly separate from water and prevent the formation of anti-lubricating emulsions. The incorporation of special additives in US Lube Industrial Gear Oils protects equipment from rust, corrosion and foam. In addition, extreme pressure additives provide optimum protection against shock loading and offer high load carrying capabilities.

US Lube Industrial Gear Oils find applications in virtually all types of industrial settings. Some typical applications includes gear sets and oil circulating systems in steel mill, foundries, glass and bottle manufacturing plants, injection molding machines, paper mills, electrical wheel motors used in surface mining and quarries, shearing arms in underground coal mining, cement kilns, petroleum and chemical processing plants.

Applications / Benefits:

- ▣ Excellent low and high temperature performance.
- ▣ Prevents rust and corrosion.
- ▣ Reduces galling, scuffing and welding of gear teeth.

Typical test results for ISO 220 are :

TEST DESCRIPTION	METHOD	RESULTS
Extreme Pressure Properties Timken Load Arm Test OK Load, lb	ASTM D-2782	65
Four Ball Extreme Pressure Test Load Wear Index (LWI), Kg Weld Load, Kg	ASTM D-2783	64.7 250
Weld Load, Kg FZG 4 Square Gear Test, Load Stage FZG Total Wt, Loss, mg	DIN 51354	12 Pass 16.7
Rust Test Part A Part B	ASTM D-665(IP135)	Pass Pass



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Typical Characteristics:

Test Description	Method	46	68	100	150
ISO Viscosity Grade	-				
Specific Gravity @ 15 °C	ASTM D 4052	0.868	0.870	0.873	0.882
Flash Point, °C	ASTM D 92	210	216	240	238
Pour Point, °C	ASTM D 97	-24	-21	-24	-15
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	46.4	68.6	100.6	151
cSt @ 100°C	ASTM D 445	6.85	8.86	11.9	14.8
Viscosity Index	ASTM D 2270	102	102	108	100
Color	ASTM D 1500	<1.5	<1.5	<1.5	<2.0

Test Description	Method	220	320	460	680
ISO Viscosity Grade	-				
Specific Gravity @ 15 °C	ASTM D 4052	0.889	0.894	0.905	0.912
Flash Point, °C	ASTM D 92	240	242	258	260
Pour Point, °C	ASTM D 97	-12	-9	-6	-15
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	226.4	333	480	670
cSt @ 100°C	ASTM D 445	19.5	24.6	30.4	48.7
Viscosity Index	ASTM D 2270	98	95	92	125
Color	ASTM D 1500	<2.5	<3.0	<3.5	<3.5

Specifications, Approvals & Recommendations:

- AGMA 9005-E02
- DIN51517 Part 3 2004-01
- ISO 12925-1 CKC/CKD
- US Steel 224



 THE AMERICAN TECHNOLOGY

Product Data Sheet