MORRISON

Morrison Industrial Gear Oil

Product Description:

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

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	ASTM D-2782	
Timken Load Arm Test		
Min OK Load, lb		70
Four Ball Extreme Pressure Test	ASTM D-2783	
Load Wear Index (LXI), Kg		53.7
Weld Load, Kg		250
Weld Load, Kg FZG 4 Square Gear	DIN 51354	
Test, Load Stage		12 Pass
FZG Total Wt, Loss, mg		16.7
Rust Test	ASTM D-665(IP135)	
Part A		Pass
Part B		Pass

Test Description	Method				
ISO Viscosity Grade	-	**68**	**100**	**150**	**220**
Specific Gravity @ 15 ºC	ASTM D 4052	0.870	0.873	0.882	0.889
Flash Point, ºC	ASTM D 92	216	240	238	240
Pour Point , ºC	ASTM D 97	-21	-24	-15	-12
Kinematic Viscosity, cSt @ 40ºC	ASTM D 445	68.6	100.6	151	226.4
cSt @ 100ºC	ASTM D 445	8.86	11.9	14.8	19.5
Viscosity Index	ASTM D 2270	102	108	100	98
Color	ASTM D 1500	<1.5	<1.5	<2.0	<2.5

Test Description	Method				
ISO Viscosity Grade	-	**320**	**460**	**680**	**1000**
Specific Gravity @ 15 ºC	ASTM D 4052	0.894	0.905	0.912	0.911
Flash Point, ºC	ASTM D 92	242	258	260	250
Pour Point , ºC	ASTM D 97	-9	-6	-15	-15
Kinematic Viscosity, cSt @ 40ºC	ASTM D 445	333	480	670	1030
cSt @ 100ºC	ASTM D 445	24.6	30.4	48.7	68.5
Viscosity Index	ASTM D 2270	95	92	125	132
Color	ASTM D 1500	<3.0	<3.5	<3.5	<3.5