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Gulf Way 220

Machine Tool Slideway Lubricant

Product Description:

Gulf Way 220 is a superior quality lubricant specially developed to meet the requirements of modern high production machine tool slideways and is formulated from high quality base stocks and selected additives to provide excellent anti-wear and EP characteristics, low frictional properties, adhesiveness, filterability and water separating capabilities. Gulf Way 220 offers superior protection against oil degradation and corrosion of machine tool surfaces even in the presence of aqueous cutting fluids. Gulf Way 220 is specially developed to reduce the “stick-slip” problems with slow moving and heavily loaded machine tool slides.

Gulf Way 220 has low frictional properties that reduces chatter and stick-slip of slides and ways and leads to improved surface finish and dimensional accuracy of workpieces. Excellent demulsibility provides ready separation from soluble cutting fluids and leads to prolonged coolant life and reduced cost of replacement and disposal. Superior metal wetting properties and adhesiveness resists wash-off from critical surfaces and protects from attack of high pH-coolants. Good filterability provides easy circulation through filters and reduces stick-slip, chatter and wear. Excellent anti-wear performance provides high levels of protection for gears, bearings and slides. Effective rust and corrosion inhibitors provides enhanced protection of machine tool slides even in presence of aqueous cutting fluids. Good thermal and oxidative stability keeps sliding surfaces clean and resists oil degradation thereby increasing its service life.

Gulf Way 220 is recommended for large machines where way pressures are high and also for vertical and inclined slides and ways.

Meets the specifications of: ISO 19378-L-GA/GB, DIN 51502 CGLP, AFNOR E 60-203 L-G, GM LS-2

Approved by: MAG Industrial Automation Systems, LLC (Previously known as Cincinnati Machine) P-50

<u>Properties:</u>	<u>Test Methods:</u>	<u>Typical Values:</u>
ISO Viscosity Grade	ISO 3448	220
Density @ 15°C	ASTM D4052	898 kg/m ³
Viscosity @ 40°C	ASTM D7042	198-242 mm ² /s
Viscosity Index	ASTM D2270	>95
Flash Point	ASTM D92	>240°C
Pour Point	ASTM D97	<-18°C
Total Acid Number	ASTM D974	<0.9 mgKOH/g
Copper Corrosion	ASTM D130	1b
Rust Test	ASTM D665/B	Pass
Stick Slip Frictional Test (ratio of static to kinetic friction)	CM	<0.8
Thermal Stability	CM-Procedure B	Pass
Water Separability Characteristics @ 54°C	ASTM D1401	Pass
Four Ball Wear Test, wear scar diameter	ASTM D4172	0.26 mm
Timken EP OK Load	ASTM D2782	60 lb

Product Code: 4111	Date Issued: 16/07/2012	Date Superseded: 23/12/2011	Revision nr: 02
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Distributors of Industrial Lubricants by



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