QS WAY LUBE SERIES

Way and Slide Lubricants

Product Description

The QS Way Lube Oils are premium-quality lubricants blended from highly refined base stocks. They have been fortified with advanced additives to impart excellent lubricity and extreme pressure properties. QS Way Lubes exhibit high film strength, which allows build-up of a thick oil film that enables accurate table positioning and prevents wear of system components. This allows smooth, uniform motion at design travel speeds. The QS Way Lube Oils are optimized to provide sustained fast separating from aqueous coolants.

Features and Benefits

QS Way Lube Oils have been developed and specifically designed to provide an extra margin of machinery protection by satisfying the stringent demands of the slide ways while meeting the requirements of the other lubricated components of the machine tools. They exhibit excellent lubricity and load-carrying performance contributing significantly to improving the production of quality parts. Their outstanding oxidation and thermal stability characteristics improve machine cleanliness, provide desirable filterability properties and reduce the need for frequent maintenance services. The QS Way Lube Oils provide excellent separate ability from water and aqueous coolants reducing the potential negative effects of cross contamination enhancing the service life and performance of both the lubricant and the coolants.

Features	Advantages and Potential Benefits
Low Frictional Characteristics	Helps eliminate chatter and stick-slip, Improves finish and accuracy of parts,
Lubricity	Reduces wear
Adhesiveness	Prevents removal of lubricant from critical surfaces Protects surfaces from attack of high pH coolants
Water and Aqueous separate ability	Extends lubricant life and performance, Improves aqueous coolant life
Oxidation/Chemical Stability	Extends oil service life Keeps sliding surfaces and other lubricated components clean Helps reduce filter change frequencies
Rust and Corrosion Protection	Helps reduce the deterioration of sliding services and associated maintenance Improves the quality and productive capacity of finished parts
Multi-Metal Compatibility	Works with ferrous and non-ferrous materials

Applications

QS Way Lube Oils are recommended both as slide way lubricants and as fluids for moderate service machine tool hydraulic systems. These oils are designed for use with all combinations of cast iron, steel and non-metallic way materials. Their extreme pressure properties make them suitable for all types of gears found in machine tools. They should not be used in circulation systems where bulk oil temperatures exceed 160°F.

QS Way Lube Light (Lt) is recommended for horizontal slide ways on small to medium size machine tools. It is also suitable for flood application in large machines. QS Way Lube Heavy is the normal recommendation for severe applications and machines with vertical slide ways. QS Way Lube Oils can be used for lubrication of ball screws, linear guides, headstocks, translating screws, spur and bevel gears, and lightly loaded worm gears

Specifications and Approvals

QS Way Lube Oil approvals:	Ex Lt	Lt	Hvy
BIJUR PT 37-1	X	X	X
Cincinnati Machine	P-53	P-47	P-50

Typical Properties

QS Way Lube Numbered Series	Ex Lt	Lt	Hvy
ISO Viscosity Grade	32	68	220
Viscosity cSt @ 40°C	31	66	219
Viscosity Index	96	96	96
Copper Strip Corrosion, ASTM D 130, 3 h @ 100°C	1B	1B	1B
Rust Protection, ASTM D 665A	Pass	Pass	Pass
FZG Load Support, DIN 51354, Fail Stage	13	13	13
4-Ball Wear, Scar Dia, 20 Kg, 54°C, 1800 RPM, >1 hr, ASTM D 4172, mm	0.25	0.25	0.25
Weld Load, 4-Ball EP, ASTM D 2783, kg	200	200	200
Pour Point, °C, ASTM D 97	-31	-34	-3
Flash Point, °C, ASTM D 92	214	230	238

Precautions

QS WAY LUBE is manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapor inhalation. Please refer to our Imperial Oil Material Safety Data Sheet for further information.