



PRODUCT DATA SHEET

GIANT SLIDEWAY ZF

Machine Tools Way and Slide Zinc-Free Lubricant

DESCRIPTION

GIANT SLIDEWAY ZF series are premium oils formulated from a combination of high quality mineral base-stocks and a Zinc-free/ashless balanced additive system that are specially designed to meet the lubrication, accuracy and finishing requirements for processes utilizing high quality machine tools. GIANT SLIDEWAY ZF series possess excellent stick-slip low friction characteristics, adhesiveness and lubricity to eliminate chatter under thin film boundary lubrication conditions to allow smooth operation even at low speeds. In addition, GIANT SLIDEWAY ZF series provide outstanding rust and corrosion protection even in the presence of aqueous coolants. They are also low foaming oils and will readily separate water. The oils are also designed to provide superior filterability performance and at the same time protect slides and ways. They will provide protection even when the machines are not in operation.

GIANT SLIDEWAY ZF series exhibit excellent load carrying and anti-wear properties that will protect machine parts against wear and tear. Their oxidation and thermal stability characteristics also ensure machine cleanliness and reduce maintenance periods.

These unique properties make GIANT SLIDEWAY ZF series suitable for a variety of hydraulic and gear oil applications.

PERFORMANCE STANDARDS

- Cincinnati Milacron P47, P50, P53
- Meets Denison, Brugger, AFNOR & DIN 51524 Hydraulic oil specifications
- Meets US Steel, French Steel, David Brown, AGMA and DIN 51517 specifications

BENEFITS

- Optimized low friction characteristics to allow smooth operation
- Excellent lubricity and wear protection
- Special adhesive properties so oil will remain on critical surfaces
- Superior rust and corrosion protection
- Resistant to foaming
- Excellent filterability
- Very good water separation to optimize aqueous coolant compatibility
- Multi-metal compatibility
- Zinc-free and ashless

TYPICAL APPLICATIONS

GIANT SLIDEWAY ZF Series are recommended as slideway lubricants for most combinations of iron, steel, yellow metals and non-metallic materials, and as a lubricant for machine tool parts such as ballscrews, linear guides, spur & bevel gears etc.

GIANT SLIDEWAY ZF 32 is suitable for use as a dual purpose slideway and hydraulic oil.

GIANT SLIDEWAY ZF 68 & 100 are recommended for horizontal slideways on small to medium machine tools. They can also be used as hydraulic and gear oils plus flood applications on large machines.

GIANT SLIDEWAY ZF 220 is typically recommended for large machines where way pressures are high and good precision.

TYPICAL PROPERTIES

ISO VG	32	68	100	220
Density, kg/Litre @ 15°C	0.87	0.88	0.88	0.89
Kinematic Viscosity, cSt @ 40°C	33	67	100	220
Kinematic Viscosity, cSt @ 100°C	5.6	9.1	11.5	19.2
Viscosity Index	112	106	100	98
Pour Point, °C	-12	-9	-9	-6
Flash Point, °C	220	234	240	246