



Shell Tonna[®] Oils V

High tackiness machine tool slideway lubricants

Shell Tonna Oils V are specially designed for the lubrication of machine tool slides and tables. They are based on highly refined mineral oils and contain additives to enhance tackiness, anti-wear and stick-slip characteristics. They are specially recommended in cases where high adherence is required.

Applications

- **Machine tool slideways, tables and feed mechanisms**

Developed for use on a wide range of materials used for machine tool slideway surfaces, including cast iron and synthetic materials.

Shell Tonna Oil V 68 is intended for horizontal slideways and can be also be used in the hydraulic and gearbox system. For vertical slides use Shell Tonna Oil V 220.

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Performance Features and Benefits

- **Excellent slideway adhesion**

The high tackiness agent content provides very effective adhesion to slideway surfaces, resisting wash-off by metalworking fluids and thus helping to reduce oil consumption and thereby giving more uniform working conditions for the machine.

- **Ready separation and high compatibility with water-extendible cutting fluids**

Separates readily from water-extendible metalworking oils allowing easy removal by skimming. The formulation prevents loss of performance in the presence of contamination.

- **Good frictional properties**

“Stick-slip” problems are overcome, allowing more accurate positioning. This provides benefits of improved finished surface quality and dimensional accuracy of workpieces.

- **Good anti-wear performance**

Provides anti-wear protection for slideways, gears, bearings and hydraulic system components.

- **Excellent corrosion prevention characteristics**

Provides effective protection of machine tool surfaces and components in the presence of water-extendible cutting fluids.

Specifications and Approvals

Shell Tonna Oils V meet the following specifications:
ISO 19378 / ISO 6743-13 GA and GB
DIN CGLP
Cincinnati Machine P-50 (220), P-47 (68)

Health & Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water



Typical Physical Characteristics

Shell Tonna Oil V	68	220
ISO Viscosity Grade (ISO 3448)	68	220
Kinematic Viscosity @ 40°C mm ² /s 100°C mm ² /s (ISO 3104)	68 8.9	220 18.5
Viscosity Index (ISO 2909)	105	99
Density @ 15°C kg/m ³ (ISO 12185)	880	895
Flash Point °C (Cleveland Open Cup) (ISO 2592)	225	250
Pour Point °C (ISO 3016)	-24	-15

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur.

Handling and Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell.com/us/lubricants>. For technical assistance, please call **1-800-231-6950**. For orders and other inquiries, please call **1-800-468-6457 (Distributors)** or **1-800-840-5737 (Customers)**.