



Shell Tonna[®] Oils T

High performance lubricant for machine tool slideways

Shell Tonna Oils T 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 exposure to soluble cutting fluids exist

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.

In addition to horizontal slideways, Shell Tonna Oil T 32 can also be used in the hydraulic and gearboxes 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

- **Ready separation from water-miscible cutting fluids**

Separates completely and immediately from water-extendible metalworking oils allowing easy removal by skimming. The formulation helps to prevent loss of performance in the presence of contamination.

- **Good slideway adhesion**

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.

- **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 Oil T 32 meets the following specifications:

ISO 19378 / ISO 6743-13 GA and GB
DIN CGLP
P-53

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 T	32
ISO Viscosity Grade (ISO 3448)	32
Kinematic Viscosity @ 40°C mm ² /s 100°C mm ² /s (ISO 3104)	32 5.4
Viscosity Index (ISO 2909)	107
Density @ 15°C kg/m ³ (ISO 12185)	870
Flash Point °C (Cleveland Open Cup) (ISO 2592)	215
Pour Point °C (ISO 3016)	-30

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)**.