

Shell TONNA® Oil T

High performance lubricant for machine tool slideways

Shell TONNA® Oil T is specially designed for the lubrication of machine tool slides and tables. It is based on highly refined mineral oils and contains additives to enhance tackiness, anti-wear, and stick-slip characteristics. It is specially recommended in cases where high exposure to soluble cutting fluids exists.

Performance Features and Benefits

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

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

- **Good slideway adhesion**

Provides very effective adhesion to slideway surfaces, resisting wash-off by metalworking fluids and those reducing oil consumption and giving more uniform working condition 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-miscible cutting fluids.

Shell TONNA® Oil T 32 can be used also in the hydraulic and gearboxes system. Lower viscosity grades like ISO 32 are intended for horizontal slide lubrication.

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

Specifications, Approvals, and Recommendations

Shell TONNA® Oil T 32 meets the following specifications: P-53 (ISO 32)

Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Main 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.

Typical Physical Characteristics

Shell TONNA® Oil T	Method	32
Kinematic Viscosity @ 40°C cSt @ 100°C cSt	ASTM 445	32 5.4
Viscosity Index (ISO 2909)	ASTM D 2270	107
Flash Point (COC) °C	ASTM D 92	215
Pour Point °C	ASTM D 97	-30
Density @ 15°C kg/L	ASTM D 4052	0.870

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.