

Previous Name: Shell Tonna T

Shell Tonna S2 M 220

• Extra Separation from Coolants

Machine tool slideway oils

Shell Tonna S2 M oils are specially designed for the lubrication of machine tool slides, tables and feed mechanisms. Their enhanced tackiness and stick-slip characteristics combine to offer superior frictional performance on slideways. They are specially recommended in cases where high exposure to soluble cutting fluids exist.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Ready separation from water-miscible cutting fluids Separates completely and immediately from water-miscible metalworking fluids allowing easy removal by skimming. This helps to achieve longer coolant life, better cutting performance and to reduce Health & Safety issues.

· Good slideway adhesion

Provides very effective adhesion to slideway surfaces, resisting wash-off by metalworking fluids and thus 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 work pieces.

· Good anti-wear performance

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

Excellent corrosion prevention characteristics

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

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.

Shell Tonna S2 M oils can be used also in the hydraulic and gearboxes system although in such applications Shell Tonna S3 M oils are generally preferable.

The lower viscosity grades are intended for horizontal slide lubrication (Shell Tonna S2 M 32 or 68). For vertical slides use Shell Tonna S2 M 220.

Specifications, Approvals & Recommendations

- Cincinnati Machine P-50 (ISO 220), P-47 (ISO 68), P-53 (ISO 32)
- ISO 19378 / ISO 6743-13 GA and GB DIN CGLP
- CGLP Slideway Oils against DIN 51502
 For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties			Method	Shell Tonna S2 M 220
ISO Viscosity Grade			ISO 3448	220
Kinematic Viscosity	@40°C	mm²/s	ISO 3104	220
Kinematic Viscosity	@100°C	mm²/s	ISO 3104	19.1
Viscosity Index			ISO 2909	98
Density	@15°C	kg/m³	ISO 12185	894
Flash Point (Cleveland Open Cup)		°C	ISO 2592	250
Pour Point		°C	ISO 3016	-15

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

Health, Safety & Environment

• Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

• Protect the Environment

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

Additional Information

Advice

Advice on applications not covered here may be obtained from your Shell representative.