



Formerly Known As: Shell Morlina 5

Shell Morlina 5

- Reliable Protection
- High Speed Applications

Special application low viscosity circulating oil

Shell Morlina 5 is a special low viscosity, solvent refined mineral oils blended with zinc free additives, to provide extended performance in the high-speed spindles of machine tools.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Long oil life – Maintenance saving**

Shell Morlina oils are formulated with a well proven rust and oxidation inhibitor package that provides high resistance to oxidation, caused by heat in the presence of air, water and metal catalysts, such as copper, and helps to prolong oil life and lower maintenance costs.

- **Reliable wear & corrosion protection**

The special additives provide efficient anti-wear performance without reacting to the softer metals in bearings and enhance machine reliability.

In addition the additive package enhances the oil's natural corrosion protective properties and helps to prolong bearing life.

- **Maintaining system efficiency**

The low viscosity components of these oils have been chosen to help promote the smooth running of high speed machine elements and minimize heat build up through frictional energy losses.

Main Applications



- **Machine bearing and circulating systems**

Suitable for a range of machine lubrication systems that include oil lubricated plain and rolling element bearings.

- **High speed spindles**

The low viscosity fluids (ISO grades 5 and 10) are particularly suitable for the lubrication of high speed spindles in machine tools.

Specifications, Approvals & Recommendations

- Fives Cincinnati P-62 (ISO VG 5)

Shell Morlina oils are designed to meet specifications requiring a premium quality, light viscosity oil for applications running at high speeds such as those found in high speed frames and automated machine tools

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical help desk

Typical Physical Characteristics

Properties			Method	Shell Morlina 5
ISO Viscosity Grade			ISO 3448	5
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	5
Density	@15°C	kg/m ³	ISO 12185	869
Flash Point			ASTM D93	120
Pour Point			ISO 3016	-30
Rust, Salt Water			ASTM D665B	Pass
Oxidation Control Test : TOST			ASTM D943	1 500
Oxidation Control Test : RPVOT			ASTM D2272	100

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

- **Health & Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet.

- **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