

Previous Name: Shell Valvata J

Shell Omala S1 W 460

Industrial Gear Oils

Shell Omala S1 W oils are quality refined, high viscosity mineral oils compounded with a small percentage of fatty oils. They are particularly suitable for the lubrication of low speed enclosed gears and worm drive application. They are also suitable for the lubrication of high temperature, high pressure steam cylinders.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Oil life – Maintenance saving

Shell Omala S1 W possesses low volatility and a natural resistance to the formation of gummy or carbonaceous deposits in high temperature conditions to give consistent performance through the lubrication maintenance intervals.

Wear protection

Provides a reliable oil film under low speed operation such as worm gear drives.

Main Applications



• Enclosed industrial worm gear systems

Shell Omala S1 W may be used to advantage in worm gears prone to suffer extensive wear and to reduce the bulk oil temperature. Typical examples are gears running at low speed under stop-start conditions.

Typical Physical Characteristics

Method Omala S1 W 460 **Properties** ISO 3448 460 ISO Viscosity Grade ISO 3104 460 @40°C **Kinematic Viscosity** mm²/s ISO 3104 31.2 mm²/s **Kinematic Viscosity** @100°C ISO 2909 98 Viscosity Index ISO 12185 887 Density @15°C kg/m³ ISO 2592 318 Flash Point (COC) °C ISO 3016 -6 °C **Pour Point**

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

Worm Drive Applications

Technical Data Sheet

Reliable Protection

Steam cylinder lubrication

Suitable for steam cylinder applications working under high temperature and high pressure conditions.

For highly-loaded worm drives Shell Omala S4 WE is recommended.

For industrial enclosed spur and helical gear systems the Shell Omala "G" series is recommended.

For automotive hypoid gears, the appropriate Shell Spirax Oil should be used.

Specifications, Approvals & Recommendations

- AGMA 9005-EO2 (CP)
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Health, Safety & Environment

• Health & Safety

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.