



Previous Name: **Shell Valvata J**

Shell Omala S1 W

Industrial Gear Oils

- **RELIABLE PROTECTION**
- **WORM DRIVE APPLICATIONS**

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.

Performance 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.

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.

- **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 and Approvals

Meets AGMA 9005-EO2 (CP)

Health and Safety

Guidance on Health and Safety is 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.

Advice

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



Typical Physical Characteristics

Shell Omala S1 W			460	680
ISO Viscosity Grade		ISO 3448	460	680
Kinematic Viscosity		ISO 3104		
at 40°C	mm ² /s		460	680
at 100°C	mm ² /s		31.2	35.2
Viscosity Index		ISO 2909	98	83
Flash Point COC	°C	ISO 2592	318	322
Pour Point	°C	ISO 3016	-6	-6
Density at 15°C	kg/m ³	ISO 12185	887	891

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