



Previous Name: Shell Omala Oils

Shell Omala S2 G 320

- *Extra Protection*
- *Standard Application*

Industrial Gear Oils

Shell Omala S2 G oils are high quality extreme-pressure oils designed primarily for the lubrication of heavy duty industrial gears. Their high load carrying capacity and anti-friction characteristics combine to offer superior performance in gears.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

■ Long oil life – Maintenance saving

Shell Omala S2 G oils are formulated to resist thermal and chemical breakdown throughout the maintenance interval. They withstand high thermal loading and resist the formation of sludge to provide extended oil life capability, even with bulk oil temperatures of up to 100°C in certain applications.

■ Excellent wear & corrosion protection

Excellent load carrying capacity reduces gear tooth and bearing wear on both steel and bronze components.

Shell Omala S2 G has excellent corrosion protection, protecting both steel and bronze components, even in the presence of contamination by water and solids.

■ Maintaining system efficiency

Shell Omala S2 G oils have excellent water separation properties, such that excess water can be drained easily from lubrication systems to help extend the life of the gears and ensure efficient lubrication of the contact areas.

Water can greatly accelerate surface fatigue of gears and bearings as well as promoting ferrous corrosion on internal surfaces. Water contamination should therefore be avoided or removed as quickly as possible after the occurrence.

Main Applications



■ Enclosed Industrial gear systems

Shell Omala S2 G oils are formulated using an effective sulphur-phosphorus additive system to provide an extreme pressure performance which allow trouble-free application in most enclosed industrial gearboxes using steel spur and helical gears.

■ Highly loaded gears

Shell Omala S2 G oils have an effective full extreme pressure (EP) additive system allowing them to be used in highly-loaded gear systems.

■ Other applications

Shell Omala S2 G oils are suitable for lubrication of bearings and other components in circulating and splash-lubricated systems.

For highly-loaded worm drives the Shell Omala "W" series oils are recommended.

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

Specifications, Approvals & Recommendations

■ David Brown S1.53.101,102,103,104

■ Meets MAG (Cincinnati Machine) P34,35,59,63, 74, 76-78

■ Meets ISO 12925-1 Type CKD, except ISO 680-1000. ISO 680 meets CKC

■ DIN 51517- Part 3 (CLP), except ISO 1000

■ AGMA 9005- EO2 (EP)

■ US Steel 224

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 Omala S2 G
ISO Viscosity Grade	ISO 3448	320
Kinematic Viscosity @40°C	mm ² /s	ISO 3104
Kinematic Viscosity @100°C	mm ² /s	ISO 3104
Viscosity Index		ISO 2909
Density @15°C	kg/m ³	ISO 12185
Flash Point (COC)	°C	ISO 2592
Pour Point	°C	ISO 3016

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.