Technical Data Sheet

Formerly Known As: **Shell Omala Oils**

Shell **Omala** *S2 G 68*

- 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^{0}C in certain applications.

- **Excellent wear & corrosion protection**

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

  Shell Omala S2 G has excellent corrosion protection, protecting steel 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.

- **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, Shell Omala S4 WE, Shell Morlina S4 B and Shell Omala S1 W are recommended.

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

  Shell do not recommend/support use in systems with fine filtration (<10 microns) because sustained foam control performance is not assured. Please consult your Shell Local Technical Advisor and Product Application Specialist

Main Applications



Specifications, Approvals & Recommendations

- Fives Cincinnati P-63
- AGMA EP 9005 - EO2
- ISO 12925-1 Type CKD
- DIN 51517 - Part 3 CLP

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

Typical physical characteristics

Properties			Method	Omala S2 G 68
ISO Viscosity Grade			ISO 3448	68
Kinematic Viscosity	@40°C	mm^2/s	ISO 3104	68
Kinematic Viscosity	@100°C	mm^2/s	ISO 3104	8.7
Viscosity Index			ISO 2909	100
Density	@15°C	kg/m^3	ISO 12185	887
Flash Point (COC)		°C	ISO 2592	236
Pour Point		°C	ISO 3016	-24

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 and Safety**

  Shell Omala S2 G 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 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.

Shell Omala S2 G

Viscosity - Temperature - Diagram

