

SHELL OMALA S2 G

INDUSTRIAL GEAR OILS

PREVIOUSLY SHELL OMALA

DESIGNED TO MEET CHALLENGES



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.

PERFORMANCE FEATURES

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 help 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 AND CORROSION PROTECTION

- Excellent load carrying capacity, helps to reduce 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 with 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.

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 S4 WE series oils are recommended. For automotive hypoid gears, the appropriate Shell Spirax Oil should be used.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

MEETS THE REQUIREMENTS OF:

- ISO: 12925-1 Type CKD
- DIN: 51517- Part 3 (CLP)
- AGMA: 9005- EO2 (EP)
- US Steel 224
- David Brown: S1.53.101,102,103,104
- Cincinatti Machine: P34,35,59,63, 74, 76-78.

TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	68	100	150	220	320	460	680	1000
Kinematic Viscosity (ISO 3104)								
@ 40°C mm ² /s	68	100	150	220	320	460	680	1000
@ 100°C mm ² /s	8.7	11.4	15.0	19.4	25.0	30.8	38.0	45.4
Viscosity Index (ISO 2909)	99	100	100	100	100	97	92	85
Density @ 15°C kg/m ³ (ISO 12185)	887	891	897	899	903	904	912	931
Flash Point °C (PMCC) (ISO 2592)	236	240	240	240	255	260	272	290
Pour Point °C (ISO 3016)	-24	-24	-24	-18	-15	-12	-9	-6