



Technical Data Sheet

- EXTRA PROTECTION
- Against oxidation
- Against wear & micropitting
- Against corrosion & foaming

Shell Omala S2 GX 220

Industrial Gear Oils

Shell Omala S2 GX oils are high quality extreme-pressure (EP) oils designed primarily for the lubrication of heavy duty industrial gearboxes. Their high load carrying capacity, protection against micropitting and compatibility with seals and paints, combine to offer excellent performance in enclosed gear applications.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Long oil life through oxidation stability and resistance to thermal stress – leading to reduced total cost of ownership**

Shell Omala S2 GX oils are formulated to reduce the risk of 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.

- **Excellent wear and micropitting protection**

Shell Omala S2 GX is formulated to have excellent load carrying capacity and micropitting performance, providing long component life.

- **Gear system efficiency is maintained by optimized water separation performance, corrosion and foam control**

Shell Omala S2 GX oils display a combination of excellent water shedding capability, corrosion protection and low foam forming tendency.

Water can greatly accelerate surface fatigue of gears and bearings as well as promoting ferrous corrosion on internal surfaces. Excellent corrosion protection is provided, even in the presence of contamination by seawater and solids.

The oils are designed to minimize the potential for foaming,

Specifications, Approvals & Recommendations

Meets requirements of:

- ISO 12925-1 Type CKD (ISO 220)
- ISO 12925-1 Type CKC (ISO 220)
- DIN 51517- Part 3 CLP (ISO 220)
- AGMA EP 9005- F16 (ISO 220)
- AIST (US Steel) 224 (ISO 220)

- Fives Cincinnati: P-74 (ISO 220)

Approved or Recommended by:

- Flender – approved according to Flender T 7300

Shell Omala S2 GX 220 is approved by Flender for use in Flender helical, bevel, planetary and marine gear units.

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

Typical Physical Characteristics

Properties			Method	Shell Omala S2 GX 220
Kinematic Viscosity	@ 40°C	mm ² /s	ISO 3104	220
Kinematic Viscosity	@ 100°C	mm ² /s	ISO 3104	19.4
Viscosity Index			ISO 2909	98
Flash Point COC		°C	ISO 2592	>240
Pour Point		°C	ISO 3016	-18
Density	@ 15°C	Kg/m ³	ISO 12185	899

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

This product 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 Safety Data Sheet (SDS) which can be obtained from <https://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