

SHELL OMALA F

PREMIUM QUALITY INDUSTRIAL GEAR OIL

DESIGNED TO MEET CHALLENGES

Shell Omala F are premium 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 and other industrial applications. They are formulated using high viscosity index, solvent refined, bases and incorporate a special sulphur-phosphorus additive to provide an extreme pressure performance significantly better than that provided by leaded gear oils. Shell Omala F are formally approved by Flender AG.

PERFORMANCE FEATURES

EXCELLENT LOAD CARRYING AND ANTI-FRICTION CHARACTERISTICS

- n Helps to reduce gear tooth and bearing wear on both steel and bronze components.

OUTSTANDING OXIDATION AND THERMAL STABILITY

- n Withstands high thermal loading and helps resist the formation of sludge and other harmful products of oxidation. Extended life, even with bulk temperatures up to 100°C in certain applications.

EFFECTIVE CORROSION INHIBITION

- n Protects both steel and bronze components, even in the presence of contamination by water and solids.

WIDE RANGE OF VISCOSITIES

- n Caters for the most varied and arduous industrial applications.

RESISTANT TO MICRO-PITTING

- n Standard setting anti micro-pitting performance to reduce the risk of premature failure through surface distress.

WATER SHEDDING PROPERTIES

- n Shell Omala F has excellent water separation properties. Excess water can be drained easily from lubrication systems. (Water can greatly accelerate surface fatigue on gears and bearings as well as promoting ferrous corrosion on internal surfaces. Water contamination should be avoided or removed as quickly as possible after the occurrence).

APPLICATIONS

- n Steel gear transmissions
- n Industrial gear drives where a full EP performance is required
- n Bearings.

CIRCULATING AND SPLASH LUBRICATED SYSTEMS

- n Shell Omala F should not be used for automotive hypoid gears. The appropriate Shell Spirax should be used for this purpose.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

APPROVED AGAINST FLENDER AG'S REQUIREMENTS OF 22/1/96 WHICH INCLUDE:

- n Sufficient oxidation stability for a lifetime of 10,000 hours or two years at 80°C.
- n A load stage 12 pass in the FZG double speed test (DIN 51354 Part 2).
- n A pass in the FVA-54/II micro pitting (grey staining) test at load stage 10 at 90°C plus.
- n Flender Foam Test.

COMPATIBILITY WITH:

- n Internal gearbox paints, solid seals, compatibility with liquid seals.

TYPICAL PHYSICAL CHARACTERISTICS

| CHARACTERISTICS | 320 | 460 |
|---|------|------|
| Kinematic Viscosity (IP 71) | | |
| @ 40°C mm ² /s | 320 | 460 |
| @ 100°C mm ² /s | 25.0 | 30.8 |
| Viscosity Index (IP 226) | 100 | 97 |
| Density @ 15°C kg/m ³ (IP 365) | 903 | 904 |
| Flash Point °C (PMCC) (IP 34) | 202 | 204 |
| Pour Point °C (IP 15) | -18 | -9 |