

Technical Data Sheet

Previous Name: Shell Delima Oils

Shell Paper Machine Oil S2 M 220

Reliable Protection Water Shedding Long Life

Paper Machine Circulating Oil

Shell Paper Machine Oil S2 M is a high performance oil designed to provide excellent all round protection for the diverse needs and conditions found in paper machines.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Good oil life – Maintenance Saving

Shell Paper Machine Oil S2 M oil has been designed to resist breakdown under high temperatures and in the presence of water. This helps provide long oil life capability and helps protect against the formation of harmful deposits.

Reliable wear & corrosion protection

Shell Paper Machine Oil S2 M uses a well proven zinc-based anti-wear system to provide reliable protection against wear.

Maintaining system efficiency

Excellent water separation and air release helps in conjunction with high quality base oils helps ensure the efficient lubrication of the machines and systems.

Shell Paper Machine Oil S2 M is also suitable for use with fine filtration to help ensure effective contaminant free lubrication to critical machine parts.

Main Applications





Paper machine applications

Shell Paper Machine Oil S2 M has been used extensively within the paper and pulp industry and is proven to deliver effective lubrication and protection in both the wet areas of machine application and the high temperature dry areas.

- Bulk oil temperatures should not exceed 70°C. It is specifically designed for:
- Lubrication of bearings in the (drying) section of paper machines
- Hydraulic and lubrication systems in deflection-compensating rolls
- Enclosed gears not requiring full EP performance.

Specifications, Approvals & Recommendations

- DIN 51517-2 type 2
- FZG load stage 12 (DIN 51354)

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Compatibility & Miscibility

Seal & Paint Compatibility

Shell Paper Machine Oil S2 M is compatible with seal materials and paints normally specified for use with mineral oils.

Typical Physical Characteristics

| Properties | | | Method | Shell Paper Machine Oil S2 M 220 |
|---------------------|--------|-------|-------------|-------------------------------------|
| Kinematic Viscosity | @40°C | mm²/s | ASTM D 445 | 220 |
| Kinematic Viscosity | @100°C | mm²/s | ASTM D 445 | 18.7 |
| Viscosity Index | | | ISO 2909 | 95 |
| Density | @15°C | kg/m³ | ISO 12185 | 900 |
| Flash Point (COC) | | °C | ISO 2592 | 265 |
| Pour Point | | °C | ISO 3016 | -9 |
| Emulsion Test | | Mins | ASTM D 1401 | 10 |
| Air Release | | Mins | ASTM D 3427 | 14.3 |
| Timken, OK Load | | lbs | ASTM D 2782 | 40 |
| Viscosity Grade | | | ISO 3448 | 220 |

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.

