



Previous Name: **Shell Delima Oils**

Shell Paper Machine Oil S2 M

Paper Machine Circulating Oil

- **RELIABLE PROTECTION**
- **WATER SHEDDING**
- **LONG LIFE**

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.

Performance Benefits

- **Good oil life – Maintenance Saving**

Shell Paper Machine 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.

In addition, it is formulated to provide effective protection against corrosion, even in the wet environments found in paper machine applications.

- **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.

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.

Seal & Paint Compatibility

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

Specifications and Approvals

Shell Paper Machine Oils S2 M can be used when the following specifications or performance levels are required:

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

Health and Safety

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.



Typical Physical Characteristics

Shell Paper Machine Oil S2 M			220
Kinematic Viscosity		ASTM D 445	
at 40°C	mm ² /s		220
at 100°C	mm ² /s		18,7
Viscosity Index		ISO 2909	95
Density at 15°C	kg/m ³	ISO 12185	900
Flash Point COC	°C	ISO 2592	265
Pour Point	°C	ISO 3016	-9
Emulsion Test, minutes		ASTM D1401	10
Air Release @ 75°C, minutes		ASTM D3427	14.3
Timken, OK Load	lbs	ASTM D2782	40

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.



Viscosity - Temperature Diagram for Shell Paper Machine Oil S2 M

