



Previous Name: **Shell Hydraul HM**

Shell Hydraulic S1 M

Industrial Hydraulic Fluid

- **RELIABLE PROTECTION**
- **INDUSTRIAL APPLICATIONS**

Shell Hydraulic S1 M fluids provide cost effective reliable protection and performance in most manufacturing and many mobile applications under normal operating conditions and standard oil maintenance intervals.

Performance Benefits

Shell Hydraulic S1 M provides a cost-effective solution for moderate severity applications where the superior performance of higher tier products is not required.

Applications

- **Hydraulic systems – General usage**

Suitable for applications operating under mild or normal conditions where temperature changes and filtration requirements are moderate.

- **Older static systems**

A cost-effective solutions where leakage is a problem, Shell Hydraulic S1 M offers good all-round basic protection and performance.

- **Other applications**

Suitable as a general use lubricant where a basic mineral oil with anti-corrosion and anti-oxidation properties is required.

For more demanding and specialized applications, the Shell Tellus range of fluids provide superior performance for systems where the stress on the fluid is high and ultra-fine filtration and sophisticated control valves are employed.

Specifications and Approvals

Shell Hydraulic S1 M fluids have been formulated to meet the requirements of

- ISO 11158 (HM fluids).

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.

Compatibility

Shell Hydraulic S1 M fluids are suitable for use with most hydraulic pumps. However, please consult your Shell representative before using in pumps containing silver plated components.

Fluid Compatibility

Shell Hydraulic S1 M fluids are compatible with most other mineral oil based hydraulic fluids. However, mineral oil hydraulic fluids should not be mixed with other fluid types (e.g. environmentally acceptable or fire resistant fluids).

Seal & Paint Compatibility

Shell Hydraulic S1 M fluids are compatible with seal materials and paints normally specified for use with mineral oils.

Protect the Environment

Take used fluid 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 Hydraulic S1 M	32	46	68
ISO Fluid Type	HM	HM	HM
Kinematic Viscosity (ASTM D 445) @ 40°C, cSt @ 100°C, cSt	32 5.3	46 6.7	68 8.6
Viscosity Index (ISO 2909)	96	97	97
Density @ 15°C (ISO 12185), kg/l	0.869	0.873	0.875
Flash Point (ISO 2592) (Cleveland Open Cup), °C	215	230	240
Pour Point (ISO 3016), °C	-24	-21	-18

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 Hydraulic S1 M

