

Previous Name: Shell Hydrau HM

Shell Hydraulic S1 M 68

Industrial Hydraulic Fluid

Shell Hydraulic S1 M 32/46/68 is a quality anti-wear hydraulic fluid which provides cost effective and reliable protection and performance in most industrial and mobile applications.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Oxidation resistant

Resists oxidation in presence of air, water and copper therefore offering good oil life and deposit control in hydraulic systems.

• Good anti-wear performance

Formulated with proven anti-wear technology to be effective throughout the range of operating conditions, including low and severe duty high load conditions to protect components like pumps etc.

· Good air release and anti-foam properties

Good surface properties to ensure quick air release while ensuring foam control in the system.

Good water separation

Good demulsibility to resist formation of water-in-oil emulsions and prevent consequent damage to pump and hydraulic system cleanliness: Meets cleanliness requirement of ISO 4406 class 21/19/16.

Main Applications



• Industrial hydraulic systems

Suitable for a wide range of hydraulic power applications found in industrial environments.

 Mobile hydraulic fluid power transmission systems
Shell Hydraulic S1 M fluids can be used in mobile hydraulic power applications such as excavators and cranes.

Operating under moderate duty cycles, except where significant ambient temperature variations are encountered.

 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, Approvals & Recommendations

- ISO 11158 (HM fluids)
- DIN 51524 Part 2 HLP type

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

Compatibility & Miscibility

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.

Technical Data Sheet

Reliable Protection

Industrial Applications

Typical Physical Characteristics

Properties			Method	Hydraulic S1 M 68
ISO Viscosity Grade			ISO 3448	68
ISO Fluid Type				HM
Kinematic Viscosity	@40°C	cSt	ASTM D445	68
Kinematic Viscosity	@100ºC	cSt	ASTM D445	8.6
Viscosity Index			ISO 2909	97
Density	@15ºC	kg/l	ISO 12185	0.875
Flash Point (COC)		°C	ISO 2592	240
Pour Point		°C	ISO 3016	-12

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/

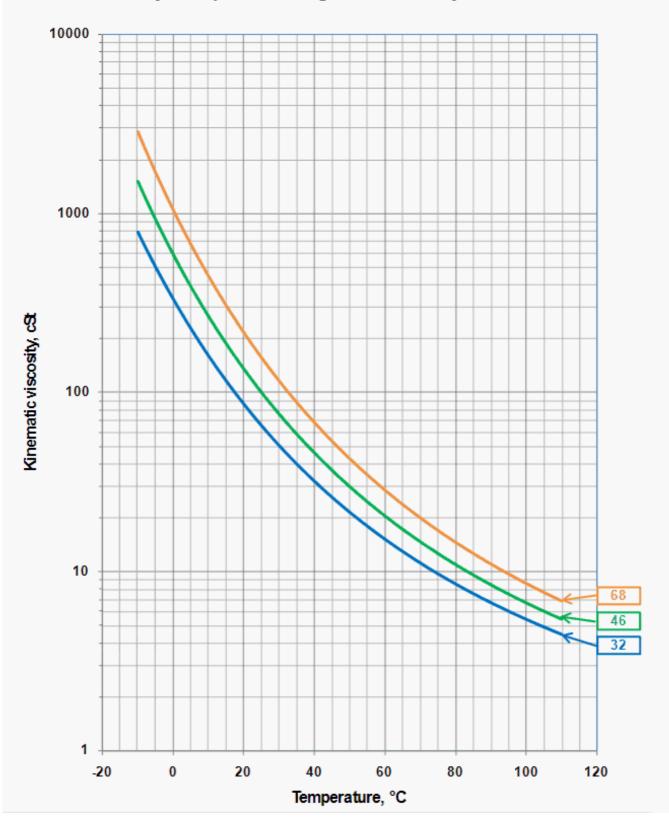
• Protect the Environment

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.



Viscosity - Temperature Diagram for Shell Hydraulic S1 M $\,$