



Previous Name: Shell High Vacuum Pump Oil 15A

# Shell Vacuum Pump Oil S1 R 68

- *Reliable Protection*
- *Standard Applications*

## Rotary Vacuum Pump Oil

Shell Vacuum Pump Oil S1 R is formulated from selected premium performance, highly refined mineral oils. This provides the low vapour pressure and performance required for the effective lubrication of rotary vacuum pumps.

### DESIGNED TO MEET CHALLENGES

#### Performance, Features & Benefits

##### ■ Long oil Life – Maintenance saving

Shell Vacuum Pump Oil S1 R is formulated to provide good resistance to oil degradation. This helps the oil provide a long service life as well as reducing the tendency for sludge build up and deposit formation.

##### ■ Outstanding wear & corrosion protection

Shell Vacuum Pump Oil S1 R helps provide effective protection of internal metal surfaces from corrosion and wear.

##### ■ Maintaining system efficiency

Use of low vapour pressure base oils with a narrow boiling range enables the pump to efficiently work at the vacuum for which it is designed.

##### ■ Rotary vacuum pumps

Shell Vacuum Pump Oil S1 R is suitable for use in many rotary and sliding vane vacuum pumps to provide medium/low vacuum pressures.

##### ■ Standard operating environments

Shell Vacuum Pump Oil S1 R is suitable for applications where ambient temperatures between 0°C and 100°C.

Shell Vacuum Pump Oil S1 R is not recommended for use when corrosive gases or chemical vapours are involved in the extraction process.

#### Specifications, Approvals & Recommendations

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

#### Main Applications



#### Typical Physical Characteristics

Properties			Method	Shell Vacuum Pump Oil S1 R 68
ISO Viscosity Grade			ISO 3448	68
Kinematic Viscosity	@40°C	cSt	ASTM D445	68.0
Kinematic Viscosity	@100°C	cSt	ASTM D445	8.8
Density	@15°C	kg/m <sup>3</sup>	ASTM D1298	881
Flash Point (COC)			ASTM D92	223
Pour Point			ASTM D97	-12
Vapour Pressure versus Temperature, Isoteniscope	@120°C	mbar	ASTM D2879	1.7
Vapour Pressure versus Temperature, Isoteniscope	@175°C	mbar	ASTM D2879	16.9
Vapour Pressure versus Temperature, Isoteniscope	@232°C	mbar	ASTM D2879	94.9
Vapour Pressure versus Temperature, Isoteniscope	@250°C	mbar	ASTM D2879	151.9
Vapour Pressure versus Temperature, Isoteniscope	@300°C	mbar	ASTM D2879	200.4

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

### ■ Health and Safety

Shell Vacuum Pump Oil S1 R is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

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.