



Previous Name: Shell Spirax A LS

# Shell Spirax S2 ALS 80W-90

High quality, GL-5 axle oil for limited slip differentials

Shell Spirax S2 ALS 80W-90 oil is blended for use in a wide variety of automotive axle units with limited slip differentials.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- Comprehensive components**  
 Specially selected additives impart good anti-wear, anti-rust characteristics, oxidation and thermal stability as well as the required coefficient of friction to meet requirements of limited slip differentials.
- High quality base oils**  
 Maintains low temperature flow in the designed temperature range, resists oxidation, and maintains oil film between gears.

- Automotive drivelines**  
 Suitable for heavy duty vehicles, including construction machines or buses, and passenger cars which are fitted with limited slip differentials. May be used in other moderate to heavily loaded gear sets that will allow use of a friction modified, hypoid gear oil.

### Specifications, Approvals & Recommendations

- API Service Classification GL-5 Limited Slip**  
 For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Main Applications



### Typical Physical Characteristics

Properties			Method	Shell Spirax S2 ALS 80W-90
SAE Viscosity Grade			SAE J 306	80W-90
Kinematic Viscosity	@104°F	mm <sup>2</sup> /s	ASTM D445	146
Kinematic Viscosity	@212°F	mm <sup>2</sup> /s	ASTM D445	14.7
Viscosity Index			ASTM D2270	100
Density	@59°F	kg/m <sup>3</sup>	ASTM D1298	909
Flash Point (COC)			ASTM D92	410
Pour Point			ASTM D97	-16.6

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

### Health, Safety & Environment

- Health and Safety**  
 Shell Spirax S2 ALS 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.