



Formerly Known As: Shell ASX 80W-140

Shell Spirax S6 AXME 80W-140

Superior performance, extended drain, synthetic transmission axle oil for many premium applications

Shell Spirax S6 AXME 80W-140 is a fully synthetic, multipurpose, heavy-duty gear lubricant specifically designed for heavy duty differentials that call for an API GL-5 type product.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- Outstanding thermal stability especially in applications where heat, wear and extended drain intervals contribute to severe service.
- High film strength and excellent shear stability.
- Excellent low temperature properties promote oil flow to help protect gears and bearings even at sub-zero temperatures.
- Synthetic formula provides maximum protection over a wide range of temperatures.
- Separates readily from water.
- Compatible with other MIL-L-2105D or MIL-PRF-2105E quality gear lubricants.
- Industrial gear applications where extreme pressure oils with excellent low and high temperature properties are required.
- Differentials used in conjunction with Eaton and Meritor extended warranties calling for an SAE 80W-140 grade.
- Manual transmissions where the manufacturer specifies a GL-5 oil of SAE 80W-140 or 85W-140 grades.

Specifications, Approvals & Recommendations

- Dana Specification SHAES 429 Rev. A
- Mack GO-J
- ArvinMeritor Specification O76-B (standard drain), O76-Q and R (extended drain)
- SAE J2360
- Harnischfeger (P&H) 474
- International Truck and Engine TMS 6816
- API Classifications GL-5 and MT-1
- General Electric D50E9C
- US Military MIL-PRF-2105E
- U.S. Steel Specification 224
- American Gear Manufacturers (AGMA) Standard 250.03

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

Main Applications



- Heavy duty differentials.
- All applications normally lubricated by automotive gear oil such as rear wheel bearings, manual steering gears and universal joints calling for an SAE 80W-140 grade.
- Transfer cases for automobiles, light and heavy-duty trucks, farm equipment and heavy construction equipment calling for SAE 80W-140 or 85W-140 grades.

Typical Physical Characteristics

Properties		Method	Shell Spirax S6 AXME 80W-140
SAE Viscosity Grade			80W-140
Product Code			59 227
Gravity	^o API	ASTM D287	23.6
Kinematic Viscosity	@40 ^o C cSt	ASTM D445	271
Kinematic Viscosity	@100 ^o C cSt	ASTM D445	30.5
Viscosity	@-18 ^o C cP	ASTM D2983	20500
Viscosity	@-26 ^o C cP	ASTM D2983	75000
Viscosity	@-40 ^o C cP	ASTM D2983	-
Viscosity Index		ASTM D2270	146
Flash Point	^o C (^o F)	ASTM D92	201 (395)
Pour Point	^o C (^o F)	ASTM D97	<-40 (<-40)
Timken, OK Load		ASTM D2509	85
FZG Gear Test			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

• Health and Safety

Shell Spirax S6 AXME 80W-140 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 Safety Data Sheet, which can be obtained from <https://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

• Optimum Performance

For optimum performance, mineral oil lubricants should be drained before using Shell Spirax S6 AXME 80W-140. Mixing with other products may reduce its effectiveness and field performance.

• Advice

Advice on applications not covered here may be obtained from your Shell representative.