Technical Data Sheet

Shell **Spirax** *S6 GXME 75W-80*

Premium, Synthetic Technology, Fuel Economy Manual Transmission and Gearbox Oil

Shell Spirax S6 GXME 75W-80 is a unique fuel-efficient, long-life gear oil designed to give the ultimate in performance and protection to meet the requirements of current and future heavy duty gearboxes. Specially formulated fully synthetic base oils plus a unique new additive technology give improved lubrication and longer life for your equipment.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Low power loss - improved efficiency**

  Special frictional properties, high fluidity combine to give lower power loss, lower operating temperature and higher mechanical efficiency. Long additive life and excellent viscosity control maintains performance over the oil's lifetime and provides smooth shifting under all conditions.

- **Longer oil drain capability**

  Long life additives ensure long-term protection of the gears and high oxidation resistance so providing extended drain capability.

- **Longer transmission life**

  Outstanding pitting, scoring and wear protection. Excellent synchromesh compatibility - exceeds requirements of leading OEMs.

- **Seal Compatibility**

  Designed to be compatible with commonly used transmission seal materials, helping maintain seal performance and minimize the risk of fluid leakage.*

- **Recognised by leading equipment manufacturers**

  A number of leading equipment manufacturers recognise the benefits of synthetic lubricants and are currently evaluating Spirax S6 GXME 75W-80.

- **Part of the Shell synthetic lubricants team**

  Use in conjunction with other Shell synthetic lubricants for maximum benefit.

*Based on ASTM seal compatibility testing and/or OEM-specific seal evaluation procedures.

Main Applications



- **Automotive transmissions**

  Synchromesh gearboxes, including those with integrated retarders, and medium loaded axle drives where mineral or synthetic gear oils are required.

Specifications, Approvals & Recommendations

- API Service Classification GL-4
- MAN 341 Typ Z4, 341 E3
- ZF TE-ML 01L, 02L, 16K

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

Typical Physical Characteristics

Properties			Method	Shell Spirax S6 GXME
SAE Viscosity Grade			SAE J 306	75W-80
Kinematic Viscosity	@40°C	mm^2/s	ISO 3104	56
Kinematic Viscosity	@100°C	mm^2/s	ISO 3104	9.5
Dynamic Viscosity	@-40°C	mPa.s	ASTM D2983	30 000
Shear Stability (Viscosity after shearing)	@100°C	mm^2/s	CEC L-45_A-99 ISO 3104	8.7
Viscosity Index			ISO 2909	163
Density	@15°C	kg/m^3	ISO 12185	849
Flash Point		°C	ISO 2592	245
Pour Point		°C	ISO 3016	-51

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 GXME 75W-80 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

- **Advice**

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