

PENNZOIL[®] SYNCHROMESH FLUID

TECHNICAL DATA SHEET



PENNZOIL[®] SYNCHROMESH FLUID is a synchromesh transmission fluid designed for certain manual transaxles and manual transmissions used by General Motors or Chrysler. PENNZOIL[®] SYNCHROMESH FLUID is formulated with high quality paraffinic base stocks, a fluidity modifier, multifunctional performance additives, corrosion inhibitors, a foam suppressor and a shear stable viscosity index improver additive. It provides excellent oxidation stability, low temperature performance, excellent synchronizer performance and compatibility with yellow metals, such as bronze, brass and copper components found in manual transaxles and transmissions. This product will satisfactorily lubricate General Motors or Chrysler manual transaxles and transmissions from -40°C to +150°C.

PERFORMANCE, FEATURES & BENEFITS

- Exhibits excellent low temperature performance
- Excellent synchronizer performance
- Excellent yellow metal compatibility

MAIN APPLICATIONS



PENNZOIL[®] SYNCHROMESH FLUID is specifically formulated for synchromesh transmissions used by General Motors requiring General Motors Part No. 12345349 (Specification No. 9985648) Synchromesh Transmission Fluid or Chrysler transmissions requiring Part No. 4874464 (Specification MS-9224). It is also recommended for use in General Motor transmissions requiring General Motors Part No. 12345577. It is listed in the Pennzoil[®] Lubrication Recommendation And Capacities Guide as “GLS.”

TYPICAL PHYSICAL CHARACTERISTICS

Properties		Method	Pennzoil [®] Synchromesh Fluid
API Gravity		ASTM D1298	27.3
Flash Point (COC)	°C(°F)	ASTM D92	195(385)
Pour Point	°C(°F)	ASTM D97	-45(-50)
Kinematic Viscosity	@40°C	cSt	41.6

SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

- Meets GM Specification 9985648
- Suitable for use in GM manual transaxles and transmissions requiring GM Part No. 12345349 or 12345577
- Meets Chrysler specification MS-9224
- Suitable for use in Chrysler transaxles and transmissions requiring Part No. 04874464

PENNZOIL[®] SYNCHROMESH FLUID is NOT intended for all GLS applications. You must verify the manufacturer's part number, indicated by a superscript number and found at the end of the vehicle application listing.

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

To find the right Pennzoil[®] product for your vehicles and equipment, please consult www.pennzoil.com to look up the right motor oil recommendation using our oil selector.

PENNZOIL[®] SYNCHROMESH FLUID

Properties			Method	Pennzoil [®] Synchronmesh Fluid
Kinematic Viscosity	@100°C	cSt	ASTM D445	9.08
Viscosity Index			ASTM D2270	208
Low Temperature Viscosity	@-40°C	cP	ASTM D2983	25 600

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

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

PENNZOIL[®] SYNCHROMESH FLUID 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 (MSDS), which can be obtained from 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 Lubricants distributor representative or Shell Technical Help Desk.