



Light Mineral Oil for Assembly Aid

1 Scope

1.1 Material Description. This specification describes the physical and chemical requirements of light mineral oil used as an assembly aid for fuel system components.

1.2 Symbols. Not applicable.

1.3 Typical Applications. Fuel system components: fuel rail, fuel injector, and fuel pump assembly.

1.4 Remarks. After it is applied, the coating will remain present on all mating parts.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

ASTM D92	ASTM D445	ASTM D1500
ASTM D97	ASTM D665	ASTM D4289

2.2 GM Standards/Specifications.

None

3 Requirements

3.1 The lubricant cannot contain silicone or soap.

3.2 The lubricant cannot be water based or contain amines, sulfonates, or sulfates.

3.3 The lubricant must not compromise the adjacent elastomeric or plastic components per ASTM D4289. In the event of compromise, an equivalent method can be used for evaluation.

3.4 Do not use engine oil as a replacement. Engine oil contains additives that may cause harm to the fuel system.

3.5 Refer to Table 1 for lubricant oil properties.

Table 1: Lubricant Oil Properties

Property	Test Value	Test Method
Viscosity at 40 °C	10 mm ² /s to 32 mm ² /s	ASTM D445
Flash Point	125 °C Minimum	ASTM D92
Pour Point	-5 °C Maximum	ASTM D97
Color	2.5 Maximum	ASTM D1500
Corrosion	No Rust	ASTM D665

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Legal Regulations. All materials must satisfy applicable laws, rules, regulations and recommendations valid in the country of usage.

5.2 Language. In the event of conflict between the English and domestic language, the English language shall take precedence.

6 Approved Sources

Not applicable.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols.

ASTM ASTM International

8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Material per 9981704

9 Release and Revisions

This standard was originated in March 1975. It was first approved by Fuels, Fluids, and Lubricants in January 2014. It was first published in January 2014.

Issue	Publication Date	Description (Organization)
1	JAN 2014	Initial publication as a stand-alone document. Split apart from 9981703.