



Petrolatum

1 Scope

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose/Material Description. This specification defines requirements for petrolatum or petroleum jelly made of solid and liquid hydrocarbons.

1.2 Symbols. Not applicable.

1.3 Applicability. Petrolatum is a general purpose lubricant used for various applications.

1.4 Remarks. None.

2 References

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

2.1 External Standards/Specifications.

ASTM D127

ASTM D937

ASTM D2161

2.2 GM Standards/Specifications.

9985007

GMW3059

2.3 Additional References.

- Specifications 8645013, 8645085; (see engineer to obtain specification)

3 Requirements

3.1 See Table 1.

Table 1: Petrolatum Test Requirements

Property	Standard	Units	P1	P2 or P3
Consistency	ASTM D937	Not applicable	65 to 85	180 to 215
Melting Point	ASTM D127	Degrees Celsius (°C)	55 to 65	54 to 60
		Degrees Fahrenheit (°F)	150 to 165	130 to 140
Viscosity at 210 °F	ASTM D2161	SUS	65 to 100	66 to 75

Note: SUS = Saybolt Universal Seconds

Key: Material Code P1 = 9985007 also known as Snow White, Material Code P2 = 8645013 as known as Amber, Material Code P3 = 8645085 and has been replaced by P2. P3 could be on older prints.

3.2 Test Requirements. For P1, a 2% by volume saturation of petrolatum in SAE 5W-30 engine oil shall not separate after heating to 100 °C for 1 h and subsequent cooling to -20 °C for 24 h.

3.3 All materials supplied to this standard must comply with GMW3059, **Restricted and Reportable Substances**, including the requirement to submit a full material composition disclosure to GM via the International Material Data System (IMDS).

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.

5.3 Inspection and Rejection. All shipments of material or parts under contract or purchase order manufactured to this specification shall be equivalent in every respect to the initial samples approved by Engineering. There shall be no changes in either formulation or manufacturing processes permitted without prior notification and approval by Engineering. Lack of notification by the supplier constitutes grounds for rejection of any shipment. While samples may be taken from incoming shipments and checked for conformance to this specification, the supplier shall accept the responsibility for incoming shipments meeting this specification without dependence upon purchaser's inspection.

The series of tests used to approve each batch of product along with acceptance limits will be agreed upon by the purchaser and seller. The laboratory providing the certificate of analysis must also participate in a proficiency testing program (round robin) that is approved by the Fuels, Fluids, and Lubricants Global Subsystem Leadership Team (GSSLT) or designate. The Fuels, Fluids, and Lubricants GSSLT or designate must receive copies of the proficiency testing reports directly from the test program administrator.

5.4 Initial Source Approval. No shipment shall be made by any supplier until representative initial production samples have been approved by the Fuels, Fluids, and Lubricants Global Subsystem Leadership Team or designees meeting the requirements of this specification.

5.5 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDS). For new product submissions, or when a change in chemical composition of an existing product has occurred, a complete copy of the Material Safety Data Sheet/Safety Data Sheet must be submitted in compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements or other country-specific MSDS/SDS requirements.

6 Approved Sources

Materials supplied to this specification must be approved by General Motors.

The appropriate GM Materials Engineering department(s) must confirm material as meeting the requirements of this specification. Any test data sheets of material submitted to General Motors for such confirmation (e.g., during Production Part Approval Process (PPAP)) under this material specification must list all properties and must apply corresponding test methods of this material specification.

For other GM locations, the responsible engineering group should be contacted to obtain the approved source in that individual country.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols.

°C	Degrees Celsius
°F	Degrees Fahrenheit
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
GMW	GM Worldwide Standard
GSSLT	Global Subsystem Leadership Team
IMDS	International Material Data System
MSDS	Material Safety Data Sheet
PPAP	Production Part Approval Process