



INDUSTRIAL PETROLATUM, SOFT WAX

WSD-M1C226-A

1. SCOPE

The material defined by this specification is a pure mineral oil product of homogeneous character containing refined wax.

2. APPLICATION

This specification was released originally for a soft gel anti-corrosion agent used for coating battery terminals. It is also used as an adhesive agent for assembly purposes and for special applications where specified.

2.1 LIMITATIONS

These materials have low melting points and are not suitable for operational or environmental temperatures above 40 °C.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements for Production Materials (WSS-M99P1111-A).

3.2 COLOR (Visual)

Translucent,
Pale Yellow/Amber

3.3 DROP MELTING POINT (ISO 2207, ASTM D127)

43 °C min

4. GENERAL INFORMATION

This information given below is provided for clarification and assistance in meeting the requirements of this specification. Grease approved to this specification should have the following typical properties. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

4.1 COMPOSITION

4.1.1 Base oil content
(According to formulation) 50 - 60%

4.1.2 Wax Content
(According to formulation) 40 - 50%

4.2 UNWORKED PENETRATION, tenths of a millimeter
(ASTM D937, ISO 2137) 155 - 172

Date	Action	Revisions	Rev. 3
2012 11 26	Revised	See Summary of revisions. FoE	K. Cosgrave,
2011 12 07	Revised	See Summary of revisions. FoE	K. Cosgrave,
1990 02 04	Released	C10057352	P. A. Osman

**4.3 VISCOSITY (Finished Product)**

4.3.1 Kinematic Viscosity at 100°C
(ASTM D445, IP 71, DIN 51562, ISO 3104) 10.65 - 13.80mm²/s

4.4 COPPER CORROSION (Copper Strip)
(ISO 2160, 24h, 40°C)

Rating 1a or 1b

4.5 DENSITY
(IP 160, ASTM D70)0.85 - 0.89 g/cm³**4.6 FLASH POINT (Finished Product)**
(IP34, ASTM D93)

210 - 245 °C

4.7 INTERFACE COMPATIBILITY**4.7.1 Chemical Attack to Painted Surfaces**
(FLTM BJ 126-01).

Note: Not tested for initial application of this grease. Grease must be tested for chemical attack to painted surfaces for applications that come in contact with paint surfaces, ex. E-coat and powder coat.

4.7.2 Resistance to Stress Cracking
(FLTM BO 127-03)

Note: Not tested for initial application of this grease. Grease must be tested for resistance to stress cracking when used for additional applications that come in contact with polymers such as PC, ABS, PC+ABS, ASA or acrylic

4.7.3 Elastomer Compatibility,
(ASTM D4289, DIN 53505, DIN 53504,
SAE AMS 3217/2A, NBR-L, 70 hrs, 150 °C)

Volume change
Hardness change, max
Tensile Strength change

Note: Not tested for initial application of this grease. Grease must be tested for elastomer compatibility when used for additional applications that come in contact with elastomers. Application specific elastomer should be used for testing instead of a reference elastomer.

5. SUMMARY OF REVISIONS

2012 11 26

- Deleted Water Resistance, Water Spray value from General Info. (4.5).
- Revised Kinematic Viscosity from 10.60 to 10.65 mm²/s.

2011 12 07

- Separate from Engineering Material Specification WSS-M1C226-A2.
- Revise title and remove references to reflect separation.
- Revise text under Scope and Application.
- Add paragraph 2.1 Limitations.

