



PETROLATUM WAX, HIGH MELTING POINT

WSS-M1C226-A2

1. SCOPE

The material defined by this specification is a high melting point wax compound. It is a translucent crystalline material in the solid state turning to a clear yellow liquid when molten.

2. APPLICATION

This specification was released originally for a wax compound used by Tier 1 suppliers to plug transmission oil way connectors to prevent fluid leakage during storage and transportation.

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

(ASTM D1500)

6.0 ASTM Color

3.3 DROPPING POINT

(ISO 2207, ASTM D127)

70°C min

4. GENERAL INFORMATION

The 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 Oil content
(ASTM D721)

15.0%

4.1.2 Wax content

Not available

4.2 NEEDLE PENETRATION, tenths of a millimeter
(ASTM D1321, 25 °C)

75

4.3 KINEMATIC VISCOSITY (Finished Product)

4.3.1 Viscosity at 100°C
(ASTM D445, DIN 51562, ISO 3104)

14.00 - 23.00mm²/s

Date	Action	Revisions	Rev. 3
2012 02 15	Revised	See Summary of Revisions	K. Cosgrave, FoE
2006 11 22	Revised	WSS-M1C226-A2 added; Revised title, 2, 5.1.3, 5.1.4, 5.1.5, 5.1.6, 5.1.8 & Supplement A & B; Inserted 5.1.9 & 5.1.10	K. Cosgrave
1990 02 04	Released	C10057352	P.A. Osman



4.4 DENSITY (Finished Product) (ASTM D 1298)

4.4.1 Density at 15 °C

864kg/m³

4.4.2 Density at 85 °C

808kg/m³

4.5 FLASH POINT (Finished Product) (ASTM D 92)

232 °C

4.6 INTERFACE COMPATIBILITY

4.6.1 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.

4.6.2 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

4.6.3 Elastomer Compatibility, (ASTM D 4289, 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 02 15

- Separate from Engineering Material Specification WSD-M1C226-A.
- Revise title and remove redundant text.
- Revise text under Scope and Application.
- Lot certification tests moved to requirements, all other requirements moved to general information.
- Add information on interface compatibility which is a requirement of all grease performance specifications.
- Supplements A, B and C removed.

