



GREASE, LITHIUM SOAP BASE - ZINC OXIDE FILLER - 15% PTFE ADDITIVE - NLGI #1

ESB-M1C111-B

1. SCOPE

The material defined by this specification is a teflon filled grease composed of lithium soap and mineral oil.

2. APPLICATION

This specification was released originally for grease used for lubricating seat track transmissions and related body hardware applications.

NOTICE: This grease shall be formulated so that it will not stain or soften painted exterior or interior automotive finishes when evaluated according to FLTM BJ 126-01.

3. REQUIREMENTS

3.0 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 COMPOSITION

3.2.1	Lithium Soap (ASTM D 128)	6.0 - 8.0%
3.2.2	Teflon, min	15.0%
3.2.3	Filler, as Zinc Oxide (ASTM D 128)	3.0 - 5.0%
3.2.4	Mineral Oil (ASTM D 128)	Remainder

3.3 PENETRATION

(ASTM D 217, worked 60 strokes) 310 - 340

3.4 DROPPING POINT, min

(ASTM D 566 or D 2265) 175 °C

3.5 WATER RESISTANCE

- 3.5.1 The material, when applied to metal strips and solvent evaporated, shall withstand 168 h at 38 +/- 1 °C in a 98 +/- 2% relative humidity atmosphere without breaking.
- 3.5.2 The material, when applied to metal strips and solvent evaporated, shall withstand 16 h immersion in a bath of running cold water without breaking per ASTM D 1264.

Date	Action	Revisions
2003 10 24	Revised	Para 3.0 inserted; paras 3.1, 3.7, 3.9 and 4 deleted
1985 10 09		CAR1-RD532208; Was ESB-M1C111-A; Revised to WW format, Retyped
1963 12 27	Released	AS1 #813

Printed copies are uncontrolled

Copyright © 2003, Ford Global Technologies, Inc.



Documents

Document Sharing Hub



3.6 LUBRICANT PAINT STAINING (FLTM BJ 126-01)

No stain or softening

3.8 QUALITY

Material shall be a smooth homogeneous product free from abrasive particles, it shall be consistent in color and texture, and free from objectionable odors during normal storage. It shall be suitable for the intended application.

5. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

5.1 MINERAL OIL PROPERTIES

5.1.1 Viscosity at 40 °C
(ASTM D 445)

16.7 - 18.7 mm²/s

5.2 The following parameters are recommended for the Quality Certification Requirements:

5.2.1 Infrared Analysis, para 3.7.

5.2.2 Penetration, para 3.3.

5.2.3 Dropping Point, para 3.4.