



GREASE, LITHIUM, SYNTHETIC HYDROCARBON, NLGI 2

WSD-M1C234-A2

1. SCOPE

The material defined by this specification is a grease consisting of synthetic hydrocarbon, lithium soap thickener and other additives to give the desired characteristics.

2. APPLICATION

This specification was released originally for grease used to lubricate control mechanisms where excellent low temperature properties are required. Suitable for slides, plain or roller bearings with good plastics compatibility and damping characteristics.

Note: Material 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 MATERIAL

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

3.1.1 Initial Qualifications

The supplier must furnish to the affected Materials Engineering activity a completed and certified copy of the attached Supplement A and test reports demonstrating the capability of the process for the listed critical properties.

3.1.2 Ongoing Verification Plan

In addition to the control plan, the supplier and affected Materials Engineering activity shall establish a mutually agreed upon ongoing product verification plan which will be listed on Supplement B.

3.4 CONSISTENCY

Material shall be a smooth homogenous 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.

3.5 FUNCTIONAL APPROVAL

Materials being evaluated for initial approval may be subjected to a functional trial. Functional trial results shall be evaluated by the responsible Systems Engineering and Materials Engineering activities prior to material approval and release.

Date	Action	Revisions
2004 04 29	Revised	Para 3.0 inserted; para 3.1, 3.2, 3.3, 3.6 & 4 deleted
1995 02 28	C10460362	Released





5. GENERAL INFORMATION

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

5.1 TYPICAL PROPERTIES

The information shown is to provide data on products which have been qualified to this specification. The values shown do not constitute part of the requirements for initial qualification.

5.1.1	Penetration (ISO 2137)	
	After 60 strokes	285
	After 100,000 strokes, change	10%
5.1.2	Dropping Point (ISO 2176)	211 °C
5.1.3	Oxidation Stability (ASTM D 942, 100 h)	0.2 kPa
5.1.4	Oil Separation (DIN 51 817)	3.8%
5.1.5	Flow Pressure (DIN 51 805)	
	20 °C	10 kPa
	-35 °C	24 kPa
5.1.6	Corrosion (DIN 51 802)	Rating 0/0
5.1.7	Copper Corrosion (ISO 2160 24 h / 100 °C)	Rating 1

5.2 SUPPLEMENT C

This is to be used for additional information required for initial qualification.