



GREASE, SYNTHETIC HYDROCARBON OIL, INORGANICALLY GELLED, HIGH VISCOSITY, NLGI 0.5

WSG-M1C247-A

1. SCOPE

The material defined by this specification is a NLGI 0.5 grease based on synthetic hydrocarbon fluids and inorganic gelling agents. This grease has thixotropic properties. The lubricant operating temperature range is -40 to 150 °C.

2. APPLICATION

The material defined by this specification was released originally to lubricate electrical switches used in windshield wiper assemblies. It is also for use on windshield wiper assembly gear trains.

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).

3.1.1 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 approval to this specification shall be subjected to a production trial. Functional trial results must be approved by the affected assembly operation and Design Engineering. Results shall be made available to Materials Engineering prior to material approval and release.

Date	Action	Revisions
2004 04 30	Revised	Para 3.0 inserted; para 3.1, 3.2, 3.3, 3.6 & 4 deleted
1994 06 30	NGA1E10370437006	Released



5. GENERAL INFORMATION

The information 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	Color	Translucent white
5.1.2	Appearance	Smooth
5.1.3	Oil Separation (ASTM D 1742, 24 h)	4.8 wt %
5.1.4	Penetration (ASTM D 217)	
	Unworked	335
	After 60 strokes	350
5.1.5	Dropping Point, min (ASTM D 2265)	204 °C
5.1.6	Oxidation Stability, max (ASTM D 942, 100 h)	69 kPa

5.2 SUPPLEMENT C

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