



GREASE, SILICONE, NLGI GRADE 2

WSS-M1C171-A3

1. SCOPE

The material defined by this specification is a silicone compound.

2. APPLICATION

This specification was released originally as a corrosion and water washout resistant grease used for steering and suspension ball joint boot seals where rubber to metal lubrication is required. This material is compatible with thermoplastic and thermosetting elastomers typically used for ball joint boot seals.

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

Gray

3.3 WORKED PENETRATION, tenths of a millimeter
(ASTM D 217, DIN ISO 2137, 60 stroke)

170-230

3.4 BLEED

(MIL-S-791 b, Method 321.2, 24 h at 200 °C)

0.7% max

3.5 EVAPORATION

(MIL-S-791 b, Method 321.2, 24 h at 200 °C)

2.3% max

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification. Greases approved to this specification should have the following typical properties.

4.1 CORROSION(ASTM B 117, 240 h)
(CRS Q-Panel, 0.23 +/- 0.04 mm thickness)

5.0% max

4.2 WATER WASHOUT

(ASTM D 1264, 80 °C)

5.0% max

Date	Action	Revisions
2010 11 29	Revised	See Summary of Revisions C. Mracna, NA
2009 03 25	Re-Activated	Still in use at Wayne A. Wedemehl, FNA
1998 04 02	Activated	L. Mastrofrancesco



4.3 INTERFACE COMPATIBILITY

Production representative materials specific to the application should be used for the following tests.

4.3.1 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.

4.3.2 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.

4.3.3 Elastomer Compatibility (ASTM D 4289, 70 h, 100 C, DIN 53505, DIN 53504)

Volume change
Tensile Strength change

Hardness change, max

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

2010 11 29

- Lot certification tests moved to requirements.
- Added information on interface compatibility which are requirements in WSS-M13P13-A.
- Deleted Supplement C