

GREASE, CONTROL LUBRICATING, SYNTHETIC OIL,
NLGI 1/2

WSA-M1C246-A

1. SCOPE

The material defined by this specification is a NLGI 1/2 grease consisting of a polyalkylene glycol base and a special lithium soap to give the desired characteristics of control lubricating.

2. APPLICATION

This specification was released originally for grease used in the lubrication of disc brake calipers and anchor plate slides. This material can also be used to aid assembly of hoses in clutch and brake systems.

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
(Visual)

Beige

3.3 WORKED PENETRATION, tenths of a millimeter
(ASTM D 217, ISO 2137, 60 strokes, 25 °C)

285–315

3.4 DROPPING POINT
(ASTM D 566, ASTM D2265, ISO 2176)

250 °C min

3.5 CORROSION PROTECTION**3.5.1 Copper Corrosion (Copper Strip)**
(ASTM D 130, DIN 51811, 24h, 100 °C)

1 max

3.5.2 Emcor Corrosion
(ASTM D 6138, DIN 51802, 168hrs)

1 max

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.

4.1 LITHIUM SOAP CONTENT
(According to formulation)

15%

4.2 BASE OIL CONTENT (PAG)
(According to formulation)

85%

Date	Action	Revisions
2010 11 18	Revised	See summary of revisions K. Cosgrave
2004 04 30	Revised	Para 3.0 inserted; para 3.1, 3.2, 3.3, 3.5 & 4 deleted
1994 03 31	Released	NC00E10244447027



**4.3 BASE OIL VISCOSITY**
(ASTM D 7042)4.3.1 Kinematic Viscosity at 40 °C 360mm²/s**4.4 PENETRATION, tenths of a millimeter**
(ASTM D 217, ISO 2137)

4.4.1 Worked Penetration, 60 strokes 295

4.4.2 Prolonged Worked Penetration, 100,000 strokes +35%

4.5 OXIDATION STABILITY 15kPa
(ASTM D 942 or DIN 51808, 100hr at 99 °C)**4.6 WATER RESISTANCE**4.6.1 Water Resistance, Static 0
(DIN 51807 T1, 3hr at 90 °C)**4.7 OIL SEPERATION DURING STORAGE** 4.6%
(ASTM D 6184, 30hr at 150 °C)**4.8 FLOW PRESSURE** 550 mbar
(DIN 51805, -40 °C)**4.9 INTERFACE COMPATIBILITY**4.9.1 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.

4.9.2 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.

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

Note: Not tested for initial application of this grease. Grease must be tested for elastomer compatibility when used on additional applications that come in contact with elastomers. Application specific elastomer should be used for testing instead of a reference elastomer.