



PASTE, SOLID LUBRICANT

WSS-M2C161-A2

1. SCOPE

The material defined by this specification is a mineral oil-based, lubricating paste containing inorganic solid lubricants and other additives to provide high load-carrying capacity, good adhesion to substrates, high temperature performance, and a low coefficient of friction.

2. APPLICATION

This specification was released originally for a paste to be used for the lubrication of various chassis assemblies where high load-carrying capability, low friction, and good corrosion protection is required. The lubricant is suitable for operating temperatures between -25 and +450 °C as paste, and up to +630 °C dry lubrication.

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 APPEARANCE Charcoal gray paste

3.3 PENETRATION, UNWORKED 260 – 310
(ASTM D217)

3.4 SPECIFIC GRAVITY at 25 °C 1.25 – 1.45

3.5 BASE OIL VISCOSITY at 40 °C, cst 10.9 – 13.3
(ASTM D445)

3.7 PRESS FIT TEST, COEFFICIENT OF FRICTION 0.12 max
(FLTM BJ 152-01, or technical equivalent)

3.8 CHEMICAL ATTACK TO PAINTED SURFACES (if applicable) No staining or softening
(FLTM BJ 126-01) of painted automotive finishes

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

4.1 LOAD-CARRYING CAPACITY, WEAR PROTECTION, and SERVICE LIFE

Four-ball Wear, scar dia., mm, typical 0.85
(1200 RPM, 75 °C, 80kg, 1h)
(ASTM D 2266)

Date	Action	Revisions	Rev. 1
2012 09 12	Revised	See Summary	C. Mroczka, NA
2008 08 28	Activated		C. Mroczka, FNA



5. SUMMARY OF REVISIONS

2012 09 12 Moved Load Carrying Capacity to General Info. Base oil viscosity was 10.2 – 11.9.