



GREASE, SILICONE - LIGHT CONSISTENCY

ESF-M1C43-A

1. SCOPE

The materials defined by these specifications are synthetic lubricating greases consisting of phenyl methyl polysiloxane fluid and lithium stearate.

2. APPLICATION

This specification was originally released for grease used on ball bearings and drive components of starting motors at Rawsonville. This lubricant is suitable for operating temperatures between -75 °C and 177 °C.

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 White/Off White

3.3 WORKED PENETRATION 300 - 340
(ISO 2137 / ASTM D 217)

3.4 BLEED, %, max 5.5
(Federal Test Method 791a,
MTHD 321.2, 24 h at 150 °C)

3.5 EVAPORATION, %, max 3.5
(ASTM D972-02, 24 h at 150 °C)

4. GENERAL INFORMATION

The information below is typical property data for the grease approved to this specification.

4.1 DROPPING POINT, °C 226
(ISO 2176 / ASTM D 566)

4.2 FOUR BALL WELD LOAD, N 1200
(DIN 51350-4)

4.3 LOW TEMPERATURE TORQUE
(ASTM D 1478 at -73 °C)
Initial Break-away Torque, Nm 130×10^{-3}
Torque after 20 min running time, Nm 13×10^{-3}

Date	Action	Revisions	Rev. 4
2008 10 30	Revised	See Summary of Revisions	A.Wedepohl, FNA
2003 10 21	Revised	Para 3.0 inserted; para 3.8 and 4 deleted	
1963 06 25	Released	F6-1073	





4.4	OXIDATION STABILITY, PRESSURE DROP, kPa, (ASTM D 942, 500 h)	34
4.5	BASE (PHENYL METHYL POLYSILOXANE), %, (ASTM D 128)	74
4.6	VISCOSITY OF BASE at 25 °C, mm ² /s (ISO 3104 / ASTM D 445)	100

5. SUMMARY OF REVISIONS

2008 10 30	Separated ESF-M1C43-A from ESF-M1C43-A2 Changed worked penetration, was 290 – 330 Changed Dropping point from 205 to 190 °C Changed Bleed from 7.8 to 5.5% max Changed Evaporation from 3.0 to 3.5% max Removed Flash Point and Neutralization Number Moved all tests in para 4.0 from Requirements to General Info.
1989 08 22	Added ESF-M1C43-A2