



GREASE, FLUORINATED LUBRICANT, NLGI 2

WSS-M1C275-A1

1. SCOPE

The material defined by this specification is NLGI Grade 2 synthetic lubricating grease consisting of a perfluoropolyether base oil thickened with a fluorinated (PTFE) polymer.

2. APPLICATION

This specification was released originally for grease used for the lubrication of bearings and the lubricant is suitable for operating temperatures between -20 and +280 °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 PENETRATION (ASTM D 217)

3.2.1	Worked, 60 cycles	265-295
3.2.2	Worked 100,000 cycles, max	+/- 15% change from 60 cycle result

3.3 VISCOSITY

3.3.1	Viscosity of Base Oil (ASTM D 445, 40 °C)	405 - 495 mm ² /s
3.3.2	Viscosity of Base Oil (ASTM D 445, 100 °C)	37.8 - 46.9 mm ² /s

4. GENERAL INFORMATION

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

4.1	COLOR	White
4.2	OIL SEPARATION, max (ASTM D 6184)	13%

Date	Action	Revisions
2009 03 19	Activated	



Documents

L. Rodriguez, FSA



4.3	DROPPING POINT, min (ASTM D 2265 or ASTM D 566)	130
4.4	4 BALL WEAR SCAR (ASTM D 2266 40kg, 75 °C, 1200 RPM for 1 hr)	0.5 - 2.5 mm
4.5	4-BALL EP WELD POINT, kg min (ASTM D 2596)	200
4.6	4-BALL LOAD WEAR INDEX, min (ASTM D 2596)	30
4.7	OXIDATION STABILITY, kPa max (ASTM D 942, 100h, 99 °C)	30
4.8	CORROSION PROTECTION (ASTM D 1743)	pass
4.9	WATER WASHOUT, wt loss % max (ASTM D 1264, 79 °C)	10
4.10	FLAMMABILITY (ASTM D 1310)	Not flammable