



BODY GREASE PERFORMANCE

WSS-M13P12-B1

1. SCOPE

This specification defines the requirements of grease used in body applications.

2. APPLICATION

This performance specification was originally released for body closures (latches and hinges), sliding mechanisms and general body related applications.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification is performance based and does not have approved sources.

3.2 FUNCTIONAL TRIAL

Materials being evaluated to this specification shall be subjected to a functional trial. Functional trial results must be approved by the affected assembly operation and Design Engineering. Results shall be made available to Materials Engineering

3.3 COLOR (Visual)

Report

3.4 COMPOSITION

- 3.4.1 Base Oil Type
- 3.4.2 Thickener Type

Report
Report

3.5 PENETRATION (ASTM D 217, DIN ISO 2137)

- Worked 60 cycles
- Worked 100,000 cycles

Report
+/- 15% change from
60 cycle result

3.6 OXIDATION STABILITY (ASTM D 942 or DIN 51808, 100 hr at 99 °C)

Report, KPa

3.7 DROPPING POINT (ASTM D566 or ASTM D2265, DIN ISO 2176)

Report, °C

3.8 WATER RESISTANCE

Note: For exterior applications only; select either water spray-off or washout depending on application.

Date	Action	Revisions	Rev. 00
2017 05 08	Released		



Documents

L. Schmalz, FNA



- | | | |
|-------|---|---------|
| 3.8.1 | Water Spray-Off
(ASTM D4049, 5 min at 38 °C) | 25% max |
| 3.8.2 | Water Washout
(ASTM D1264, DIN 51807 T02 at 38 °C) | 10%max |

3.9 INTERFACE COMPATIBILITY

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

- | | | |
|---|---|---|
| 3.9.1 | Chemical Attack to Painted Surfaces
(FLTM BJ 126-01) | No staining or softening
of automotive finishes. |
| Note: Include chemical attack test when used in contact with paint surfaces. | | |
| 3.9.2 | Resistance to Stress Cracking
(FLTM BO 127-03) | No cracking or crazing |
| Note: Include resistance to stress cracking when used in contact with polymers such as PC, ABS, PC+ABS, ASA or acrylic. | | |
| 3.9.3 | Elastomer Compatibility
(ASTM D4289, DIN 53505, DIN 53504, 70 h, 100 °C) | |
| | Volume change | 0 to 30% |
| | Hardness change | -30% to 0 |
| | Tensile Strength change, | Report % |
| Note: Include elastomer compatibility when used in contact with elastomeric materials.
Application specific elastomer should be used for testing instead of a reference elastomer. | | |

- | | | |
|------|---|---|
| 3.10 | TEMPERATURE TORQUE
(ASTM D1478, -40 °C) gf-cm, | Report Starting Torque
Report Running Torque |
|------|---|---|

- | | | |
|------|---|---------|
| 3.11 | OIL SEPARATION
(ASTM D1742 or Federal Standard 791C,
Method 321.3, DIN 51817) | 10% max |
|------|---|---------|

3.12 INFORMATION TO INCLUDE ON DRAWING

The following call-out information must be included on any engineering component/assembly drawing that specifies grease.

WSS-M13P12-B1
Supplier: _____
Full Product Name _____