



ASTM D4950 Specification Requirements for LB Chassis Grease

All requirements and descriptions are fully described in ASTM D4950. It is best to refer to the latest ASTM D4950 standards for exact specification requirements.

Table 10.2 Guide to requirements: LB chassis grease

ASTM D4950 Specification Requirements for LB Chassis Grease		
Test	Description	Acceptance Limits
D217	Consistency, Worked Penetration, mm/10	220-340 (A)
D2265	Dropping Point, °C, min.	150
D1742	Oil Separation, mass%, max.	10
D1743	Rust Protection, rating, max.	Pass
D2266	Four Ball Wear, Scar Diameter mm, max.	0.6
D2596	Four Ball EP, Load Wear Index, kgf, min.	30
	Four Ball EP Weld, kgf, min.	200
D4170	Fretting Wear, max loss, mg, max.	10 (B)
D4289	Elastomer Compatibility SAE AMS3217/3C:	
	Compatibility: Volume Change, %	0 to 40
	Hardness Change, Durometer A points	-15 to 0
D4693	Low-Temperature Torque @ -40 °C, N*m, max.	15.5

- (A) Vehicle manufacturer's requirements may be more restrictive; grease containers should display the NLGI Grade as well as category designation.
- (B) The fretting wear requirement is significant in passenger car and light-duty truck service, but it was not known to be significant in heavy-duty truck applications at the time this specification was developed.
- (C) As of November 2020, submitting D4170 data is optional. After ASTM approves the D4170 revisions, submitting D4170 data will be required.