

LUBRICANT — GREASE, TEFLON FILLED FOR AUTOMOTIVE HARDWARE

9981722 9981802 9985830

1 SCOPE. This specification covers the physical, functional and chemical requirements of a grease with a uniform dispersion of Teflon powder.

1.1 This grease shall be employed in the lubrication of automotive hardware mechanisms that require a low coefficient of friction. 9981722 shall be used only where moderate low temperature torque requirements are required, 9981802 when very low torque is required and 9985830 for special applications.

NOTE: 9985830 is the same as 9981722, except for Teflon filler requirement.

2 REFERENCED STANDARDS. None

3 REQUIREMENTS. The grease shall be uniform texture and consistency; it shall not be perfumed and shall not become rancid or show component separation for a minimum of 6 months. The grease must not be toxic or injurious to personnel engaged in its handling or use.

3.1 Physical Properties. See Table 1.

3.2 Functional Requirements. Material must perform satisfactorily in its specified automotive hardware applications between the temperature of 80°C and -30°C.

3.3 Chemical Requirements. See Table 2.

4 INITIAL SOURCE APPROVAL. No shipment shall be made by any supplier until representative initial production samples have been approved by engineering as meeting the requirements of this specification.

4.1 Completed copies of the GM Material Safety Data Sheet and Critical Material Register (available from the engineering department or laboratory), or equivalent, must be submitted with any new submissions or where a composition change has occurred.

5 INSPECTION AND REJECTION. All shipments of material or parts under contract or purchase order manufactured to this specification shall be equivalent in every respect to the initial samples approved by engineering. There shall be no changes in either formulation or manufacturing processes permitted without prior notification and approval by engineering. Lack of notification by the supplier constitutes grounds for rejection of any shipment. While samples may be taken from incoming shipments and checked for conformance to this specification, the supplier shall accept the responsibility for incoming shipments meeting this specification without dependence upon purchaser's inspection.

TABLE 1 – PHYSICAL PROPERTIES

Properties	Values		
	9981722	9981802	9985830
Worked Penetration			
at -20°C	300-330	300-330	300-330
at -20°C	160 min	160 min	160 min
Dropping Point, °C	150 min	150 min	150 min
Bleeding Test	None allowed	None allowed	None allowed
120°C for 1 h			
Torque Test	at -30°C	at -49°C	at -30°C
Start-up Torque, N·m	.3 max	.4 max	.3 max
Running Torque, N·m	.2 max	.2 max	.2 max
Oil Separation, 22 h at 99°C	6% max	6% max	6% max
Oil Evaporation, 22 h at 99°C	10% max	10% max	10% max
Corrosion Test	No rust	No rust	No rust
168 h, 38°C at 100% RH			

85830T01 (3/91)

TABLE 2 – CHEMICAL REQUIREMENTS

Properties	Values		
	9981722	9981802	9985830
Teflon Filler, Wt %	25 ± 1	15 ± 1	15 ± 1

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NOTE: This material shall contain no silicones.

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6 APPROVED SOURCES. Engineering qualification of an approved source is required for this specification. Only sources listed in the GM Corporate Materials File under this specification number have been qualified by the control division as meeting the requirements of this specification. Sources are available through the on-line MATSPC System.

7 GENERAL INFORMATION. This specification was originated by Fisher Body in March 1975. The latest revisions include:

Rev	Date	Description	Div
A	8/76	9981802 added	FB
B	3/91	9985830 added	T&B