



COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA COMMERCIAL ITEM DESCRIPTION (PCID)

PCID NO. 1061
Eff. 03/14/25

GREASE, Multipurpose for Automotive & Heavy Equipment
 Supersedes 03/25/08

This Pennsylvania Commercial Item Description covers requirements for greases suitable for use in automobiles, trucks, heavy equipment and most tractors. Products covered by this specification shall be intended for general lubrication purposes, including lubrication of, but not limited to, the following components: chassis, wheel bearings, water pump, universal joints, drive shafts, ball joints. Product shall conform to the following requirements, unless otherwise noted on the request for proposals or invitation for bids.

1. Classification. The greases covered by this specification shall be of following types

Type I - Multipurpose, extreme pressure grease (Lithium 12 hydroxy stearate).

Grade: NLGI #000
 Grade: NLGI #00
 Grade: NLGI #1
 Grade: NLGI #2

Type II - Multipurpose extreme pressure grease, synthetic blend.

Grade: NLGI #000
 Grade: NLGI #1
 Grade: NLGI #2

2. Physical Requirements. The grease shall be a homogenous combination of refined mineral oil, suitable thickeners and additives and such other constituents as may be necessary to meet the requirements of this specification. The chemical and physical characteristics shall be as specified in the following:

TYPE I - MULTIPURPOSE, EXTREME PRESSURE GREASE (LITHIUM 12 HYDROXY STEARATE).

	<u>NLGI #000</u>	<u>NLGI #00</u>	<u>NLGI #1</u>	<u>NLGI #2</u>
Appearance:	Fluid	Semi-Fluid	Soft	Normal
Penetration	445-475	400-430	310-340	265-295

TYPE II - MULTIPURPOSE, EXTREME PRESSURE GREASE SYNTHETIC (CALCIUM SULFONATE).

	<u>NLGI #000</u>	<u>NLGI #1</u>	<u>NLGI #2</u>
Use:	Winter	Winter	Summer
Viscosity Index (Base Oil):	135	135	149
Base/thickener Type:	calc. Sulf.	calc. sulf.	calc. sulf.
Ambient Temp. Range (F.):	-75 /+40	-60 /+75	+20/+450
Penetration:	445-475	310-340	265-295
Additive:	5% moly.	5% moly.	5% moly.

3. Inspection & Rejection. Sampling for prior to/post- award testing, if required, will be as defined in the Invitation to Bid Proposal. Inspection may be made at place of manufacture at the option of the Commonwealth after an award has been made. An inspection for final acceptance shall be made at the place of delivery and/or after laboratory testing to determine whether product or service meet the specification requirements. Samples for inspection and after delivery testing shall be selected by simple random sampling. If defects are detected during the course of delivery, or after product has been delivered, the Commonwealth reserves the right to reject the defective product and require replacement at no cost to the Commonwealth, or cancel the contract and surcharge the contractor for any expense incurred by the cancellation of the contract and in securing satisfactory materials, if the vendor fails to apply timely and corrective measures.

4. Packing. Grease shall be furnished in 120 and 400 pound drums, and cartridges for grease gun application.

5. Material Master – SAP Material Master Number:

- 144180 – Grease, Type 1, Lithium, EP, #00, Keg
- 144181 - Grease, Type 1, Lithium, EP, #00, Drum
- 300800 - Grease, Type 1, Lithium, EP, #000, Keg
- 300801 - Grease, Type 1, Lithium, EP, #000, Drum
- 144182 - Grease, Multi-Purpose, Type 1, EP, Lithium 12, NLGI#2, API, Keg
- 144183 - Grease, Multi-Purpose, Type 1, EP, Lithium 12, NLGI#2, API, Drum

6. Shipping Containers. Unless otherwise specified, shipments shall be made in substantial commercial containers, so constructed as to insure acceptance and safe delivery by common or other carrier. Each shipping container shall be clearly marked with the manufacturer's name, product brand name or number, case count and sheet count.

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