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1042

MATERIALS MANUAL

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SPECIFICATION NO

FORM 482-1-C

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R. A. Schwarze
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MATERIAL SPECIFICATION

EMS - 1042

APPROVED
[Signature]

ELECTRO-MOTIVE DIVISION
GENERAL MOTORS CORPORATION
LA GRANGE, ILLINOIS

REV.	DATE	BY

NAME-- BEARING GREASE - UNIREX N2

REQUIREMENTS:

1. Properties:

- Cone Penetration (ASTM D217*) at 77°F
 - Worked 60 Strokes.....265-295
 - Unworked, maximum.....worked penetration +15
- Viscosity, Mineral Oil (ASTM D455*) at 100°F, SSU.....570-630
- Dropping Point (ASTM D566*) °F, minimum..... 580
- Oxidation Stability (ASTM D942*), pressure drop in oxygen bomb after 100 hours at 210 ± 1.0°F, psi, maximum..... 2

*Latest Revision

- 2. Visual Inspection: Grease to be consistent in appearance with regard to color (green), quantity of free oil and translucency. The vendor shall identify each batch by a number, marked on the container.

NOTE: An Engineering Approval of Source is required for the purchase of this material.

GENERAL INFORMATION:

This specification covers a premium quality grease to be used in generator bearings. First, regular production use was for GP40X locomotives.

Some typical properties are:

NLGI Grade	2
Soap Type	lithium-complex
Viscosity Index	96
Base Oil Viscosity at 210°F, SSU	68.5
Rust Test Rating (ASTM D1743)	1,1,1

DRAFTING OR APPARATUS INSTRUCTION INFORMATION:

Whenever reference is made to this material, the following designation shall be used:

MATERIAL: EMS 1042 BEARING GREASE

NOTE: These specifications were developed without considering whether patents may or may not be involved. In all cases, therefore, the supplier shall be required to assume patent liability.