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Accession Number:

AD0610560

Full Text (pdf) Availability:**Size:** 0 KB**Handle / proxy Url:** No Full Text PDF Available**Citation Status:**

A - Active

Title:

ALUMINUM COMPLEX SOAPS AS THICKENERS FOR MULTI-PURPOSE GREASE.

Corporate Author:

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Personal Author(s):

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Report Date:

21 Dec 1964

Media Count:

230 Pages(s)

Organization Type:

A - ARMY

Report Number(s):RIA-64-3160 (*RIA643160*)**Descriptive Note:**

Technical rept.,

Project Number(s):1C0 (*1C0*)24401A107 (*24401A107*)**Identifiers:**

ALUMINUM ISOPROPOXIDE

Abstract:

Aluminum complex soaps were evaluated as potential thickeners for greases which would meet the low temperature requirements and exceed the upper temperature limitations of Military Specification Mil-G-10924B Grease, Automotive and Artillery. The reaction of aluminum isopropylate with mixtures of fatty acids and other organic acids in a mutual solvent is the preferred method of forming these complexes,. Of the 17 different lower molecular weight organic acids complexed with an aluminum soap, an aluminum benzoate-soap complex showed the best thickening efficiency and highest dropping point. The effects of benzoate to soap ratios, preformed complex vs in situ preparations, solvent effects on in situ preparations and additive, thickener concentration and dispersion effects were evaluated on aluminum benzoate-soap complex greases. (Author)

Distribution Limitation(s):

01 - APPROVED FOR PUBLIC RELEASE

Source Code:

307350

Document Location:

1 - DTIC AND NTIS

Geopolitical Code:

1719

Annotation:

Aluminum complex soaps as thickeners for multi-purpose grease.

Citation Updated:

19 Sep 2005



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