AEROSPACE MATERIAL SPECIFICATION

AMS1321™	
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Putty, General Purpose, Non-Hardening, Corrosion-Inhibiting

RATIONALE

New specification generally based on MIL-PRF-8116 requirements for non-curing, corrosion-inhibiting putty materials. Restriction against use in fuel tank applications allow removal of fuel contamination (non-volatile and stoved gum residue) tests. Various types, grades, and classes allow for qualification of putties of varying viscosities to match typical applications as well as option for better fluid resistance and higher temperature capabilities. Class C (from previous draft) has been removed due to discontinuation of Mastinox 6856K product originally qualified to MIL-PRF-8116. All other comments from previous draft have been incorporated without track changes unless there has been additional technical verbiage/instruction to address the changes.

1. SCOPE

1.1 Form

This specification covers a general purpose, non-curing, corrosion-inhibiting putty compounds with non-hexavalent chromium corrosion inhibitors.

1.2 Application

The products covered by this specification are intended for use as general-purpose sealers for cracks, gaps, small voids, pinholes, and seams or mating areas where non-hardening corrosion inhibitive materials are required. These materials may also be used at dissimilar metal joints, fay surfaces, or fasteners where capability for removal is desirable. Putty compounds are not to be used as fuel tank or pressure cabin sealants. Intermixing of compounds is not recommended.

1.3 Classification

Putty compounds covered by this specification are classified as follows:

1.3.1 Types

Type I - Corrosion-inhibiting putty compound with immersion resistance to hydrocarbon-based aircraft fluids.

Type II - Corrosion-inhibiting putty compound with limited immersion resistance to hydrocarbon-based aircraft fluids.

1.3.2 Classes

Putty compounds may be supplied in the following classes:

Class A - Light paste consistency suitable for brush or spatula application; non-sag at thicknesses of less than 0.020 inch (0.51 mm).

Class B - Paste consistency suitable for spatula application; non-sag at thicknesses of less than 0.100 inch (2.54 mm).

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