

NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N. W., WASHINGTON 6, D. C.

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AIA AND ITS COMMITTEES WILL NOT INVESTIGATE THE APPLICABILITY OF PATENTS TO THE SUBJECT MATTER OF NAS STANDARDS AND IN RESPECT THEREOF DO NOT ASSUME ANY LIABILITY TO PATENT OWNERS OR TO PROSPECTIVE USERS

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST DATE OF APPROVAL SHOWN HEREON

1. SCOPE

- 1.1 This specification covers the requirements for a water reducible corrosion inhibiting primer. This primer is intended to be used alone or with a topcoat.

2. APPLICABLE DOCUMENTS

- 2.1 The following specifications and standards of issue on the date of purchase order, form a part of this specification to the extent specified herein:

Fed. Test Method Std. 141 - Paint, Varnish, Lacquer and related materials; methods of inspection, sampling and testing.

QQ-A-362 - Aluminum Alloy, Plate and Sheet, Alclad 2024.

MIL-S-3136 - Standard Test Fluids Hydrocarbon and ISO-Octane.

QQ-A-283 - Aluminum Alloy, Plate and Sheet, 7075.

2 Inactive For Design
After 29 Dec. 1981
NO Superseding Standard

List of Active Sheets

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CUSTODIAN:

AEROSPACE RESEARCH AND TESTING COMMITTEE

PROCUREMENT
SPECIFICATION

NONE

TITLE

PRIMER COATING WATER REDUCIBLE,
CORROSION INHIBITING

CLASSIFICATION

SPECIFICATION

NAS 1615

Sheet 1 of 9

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MIL-H-5606 - Hydraulic Fluid, Petroleum Base, Aircraft and Ordnance.

MIL-L-7178 - Lacquer, Cellulose Nitrate, Gloss for Aircraft Use.

MIL-E-7729 - Enamel, Gloss, Aircraft Applications

MIL-L-7808 - Lubricating Oil, Aircraft Turbine Engine, Synthetic Base.

MIL-A-8625 - Anodic Coatings, for Aluminum and Aluminum Alloys.

3. REQUIREMENTS

3.1 Materials -

The ingredient materials used in the manufacture of this product shall be of high quality, suitable for the purpose, and shall conform to applicable requirements as specified herein.

3.1.1 No restrictions have been placed as to manufacture, formulation or raw materials used with the exception, that no hydrocarbon solvents or substances of known toxicity under normal conditions of usage shall be permitted unless other wise specified.

3.1.2 Volatile Content: - The volatile content of the primer shall consist of water. There shall be no more than 5% organic solvent.

3.1.3 Non-Volatile Content: - The resin solids of the primer shall consist of a water soluble, or water emulsifiable resin. The pigment solids shall consist primarily of a suitable inhibitive pigment. The total solids content shall be 50% minimum when tested in accordance with method 4041 of Fed Test Method Standard No. 141.

3.1.4 Odor: - The odor shall be normal for the volatile content permitted in the formulation. There shall be no putrid or obnoxious odors.

3.2 Physical Requirements -

3.2.1 Condition in Container: - The primer shall be free from skins, lumps, and grit and shall be capable of being easily mixed to a smooth homogeneous condition both in the original container and when reduced as specified by manufacturer.

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- 3.2.2 Freeze - Thaw Stability: - The primer shall be satisfactory after being exposed to three cycles as specified in Paragraph 4.4.4.
- 3.2.3 Weight Per Gallon: - The weight per gallon shall not vary ± 0.3 pounds per gallon from the value established on qualification.
- 3.2.4 Application: - The viscosity of the primers shall be suitable for application by spray, dip, flow-coat, etc. when reduced with water in accordance with manufacturer's recommendation.
- 3.2.5 Suspension Properties: - The primer when reduced in accordance with manufacturer's recommendation shall not settle excessively and shall be capable of being completely redispersed to a smooth homogeneous condition when tested as specified in 4.4.6.
- 3.2.6 Fineness of Grind: - The primer shall have a minimum fineness of grind of 6.5 when tested in accordance with paragraph 4.4.7.
- 3.2.7 Storage Stability: - After 6 months storage under conditions specified in 4.4.8, a full container of primer shall show no skinning, livering, curdling, hard settling. Some increase in viscosity will be permitted provided the primer exhibits satisfactory working properties. Except for this, after the above storage, the primer shall conform to all tests of this specification.
- 3.3 Film Properties -
- 3.3.1 Drying Time: - The primer shall air-dry hard within 20 minutes and shall be free of aftertack within 1 hour when tested in accordance with paragraph 4.4.10.
- 3.3.2 Surface Appearance: - When applied on glass plates by spraying, the primer shall dry to a hard smooth finish free from grit, seeds, streaks, blisters or other irregularities determined by visual examination.
- 3.3.3 Gloss: - The 60-degree gloss of dried films of primer shall not exceed 15 units.
- 3.3.4 Sanding Characteristics: - The primer shall possess satisfactory dry-sanding characteristics when scuff sanded with a No. 400 sandpaper. The material shall not clog the paper, nor shall there be any gouging or deep scratches in the primer.

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