

NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 610 SHOREHAM BUILDING, WASHINGTON 5, D. C.

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1. SCOPE

1.1 This specification covers the requirements for a water reducible, high temperature and oxidation resistant coating which may also be used for thermal insulation.

1.2 Classification: - The coating materials supplied under this specification shall be of the following grades as specified:

Grade I - Air drying

Grade II - Baking

2. APPLICABLE DOCUMENTS

The following documents of the issue on the date of the purchase order, shall form a part of this specification to the extent specified herein:

Federal Test Method Standard 141 - Paint, Varnish, Lacquer, and Related Materials, - Methods of Inspection, Sampling, and Testing.

MIL-S-18729 - Steel Plate, Sheet and Strip, Alloy 4130, Air Craft Quality.

3. REQUIREMENTS

3.1 Materials: - The ingredient materials used in the manufacture of this product shall be of high quality and entirely suitable for the intended use. The finished product shall be suitable for application as packaged or when reduced to proper consistency with distilled or deionized water.

3.2 Workmanship: - The component ingredients shall be intimately assembled and processed as required to provide a high quality finished product.

3.3 Composition: - The composition and formulation of the product shall be the responsibility of the manufacturer provided the product meets the requirements specified herein. The product shall contain not more than 5% organic solvents.

LIST OF ACTIVE SHEETS
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① Inactive For Design
After 29 Dec. 1981
NO Superseding Standard

CUSTODIAN: AEROSPACE, RESEARCH AND TESTING COMMITTEE

PROCUREMENT
SPECIFICATION

NONE

TITLE

COATING: HIGH TEMPERATURE RESISTANT,
WATER REDUCIBLE

CLASSIFICATION

Specification

NAS 1617

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- 3.3.1 Toxicity: - The product shall contain no substance known to be toxic under normal conditions of use.
- 3.3.2 Odor: - The product shall contain no noxious odors; the odor shall be normal for the ingredients used in the formulation.
- 3.4 Physical Requirements -
- 3.4.1 Condition in Container: - The material, in a freshly opened full container shall show no grit, skinning, curdling, livering or excessive pigment flotation, and shall show no more settling or caking than may be easily redispersed with a paddle to a uniform, homogeneous condition.
- 3.4.2 Viscosity: - The viscosity of the material shall be suitable for application by spray, dip, brush, flow-coat, etc., as packaged or when reduced with water in accordance with the manufacturer's recommendations.
- 3.4.3 Storage Stability: - The material, stored in full, closed containers for 1 year at 70 to 90°F, shall show no skinning, livering, curdling or hard settling and shall meet all the acceptance tests of this specification.
- 3.4.4 Dilution Stability: - The material, when reduced with water to application consistency, shall show no curdling or precipitation, and shall not settle excessively and shall be capable of being completely redispersed to a smooth, homogeneous condition when tested as specified in paragraph 4.4.1.
- 3.5 Application Requirements -
- 3.5.1 Working Properties: - The material, when reduced with water in accordance with the manufacturer's recommendation, shall be a free working product with satisfactory application characteristics and acceptable leveling properties.
- 3.5.2 Drying Time: - Type I material shall air dry dust free within a maximum of 20 minutes, tack free within a maximum of 4 hours, and dry hard within a maximum of 16 hours following application. Type II material shall develop full properties when baked as recommended by the manufacturer. Test shall be performed as specified in Paragraph 4.4.2.

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