

# AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
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## ALUMINUM PIGMENT PASTE

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily as a pigment of aluminum paint to be used as exterior protective coating on metal surfaces.
3. COMPOSITION:
  - 3.1 Non-Volatile: Shall consist of commercially pure aluminum powder in the form of fine, polished flakes and the minimum of fatty lubricant required to manufacture paste meeting the requirements of 4.1.
  - 3.2 Volatile: Volatile thinner shall consist of a mixture of refined, water-white, high-flash naphtha and mineral spirits in such proportions as to permit compliance with the requirements of 4.4.
  - 3.3 Compounding: The component ingredients shall be intimately assembled and processed in accordance with best practice for high quality aluminum paste to produce a product which is suitable for use as aircraft paint pigment and is stable and not subject to abnormal change in a sealed container.
4. TECHNICAL REQUIREMENTS:
  - 4.1 Paste shall conform to the following requirements when tested in accordance with ASTM D480-48.

Non-volatile matter at 221-230 F, %	64.5-68.0
Easily extracted fatty and oily matter (polishing lubricant), %	3.0 max
Metallic impurities, %	1.0 max
Coarse particles retained on a No. 325 screen, %	0.1 max
  - 4.2 Paste shall be suitable for making aluminum paint and shall contain no filler or adulterant, such as mica.
  - 4.3 Paste shall withstand the Stability Test specified in ASTM D480-48 and shall not deteriorate to such an extent as to affect its suitability as a paint pigment after storage in unopened containers for one year of normal service storage conditions.
  - 4.4 Paste shall show good "leafing" properties. A paint made by mixing with vehicle, AMS 3130, in the proportions of 16 oz of paste to 1 gal of vehicle shall be free flowing, suitable for either brush or spray application, and shall give a continuous coating at least equal in smoothness, luster, and general appearance to that obtained with a paint mixed in the same proportions from the standard paste mutually agreed upon by purchaser and vendor.

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