

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 3128

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Revised

ALUMINUM PIGMENT PASTE

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.

2. USE: Primarily as a pigment for aluminum paint to be used as exterior protective coating on metal surfaces.

3. COMPOSITION (by weight):

Non-Volatile	64.5-68%
Volatile	32 -35.5%

4. COMPONENTS: (a) Non-Volatile.- Shall consist of commercially pure aluminum powder in the form of fine, polished flakes and the minimum of fatty lubricant as required to manufacture paste meeting the requirements of paragraph 5(a).

(b) 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 paragraph 5(d).

(c) 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.

5. REQUIREMENTS: (a) Paste shall conform to the following requirements when tested in accordance with ASTM D480-44.

Non-volatile matter at 221-230°F (105-110°C)	64.5% min
Easily extracted fatty and oily matter (polishing lubricant)	3.0% max
Metallic impurities	1.0% max
Coarse particles retained on a No. 325 sieve	0.1% max

(b) Paste shall be suitable for making aluminum paint and shall contain no filler or adulterant, such as mica.

(c) Paste shall withstand the Stability Test specified in ASTM D480-44 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.

(d) Paste shall show good "leafing" properties. A paint made by mixing with vehicle, AMS 3130, in the proportions of 16 ounces of paste to 1 gallon 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 seller.