SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

AMS 2451/11A

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Superseding AMS 2451/11

Plating, Brush, Cobalt

RATIONALE

This specification was issued as part of the SAE Five Year Review process.

1. SCOPE

1.1 Purpose

This specification covers the requirements for brush plating of cobalt by electrodeposition.

1.2 Application

This process has been used typically to improve corrosion and wear resistance of steel parts and to repair damaged, worn, or mismachined parts, but usage is not limited to such applications. This process is particularly useful for plating localized areas on-site, especially on large parts or assemblies, and for minimizing masking.

1.3 Safety - Hazardous Materials

See AMS 2451.

2. APPLICABLE DOCUMENTS

See AMS 2451.

3. TECHNICAL REQUIREMENTS

See AMS 2451.

3.1 Properties

3.1.1 Hydrogen Embrittlement

The plating process shall not cause hydrogen embrittlement in steel parts, determined in accordance with 4.2.

4. QUALITY ASSURANCE PROVISIONS

See AMS 2451.

4.1 When specified by the cognizant engineering organization, the hydrogen embrittlement relief testing of 4.3 may be waived. See 8.5.

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