



AEROSPACE MATERIAL SPECIFICATION

AMS2451™/11**REV. B**

Issued 2001-10
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Reaffirmed 2022-05

Superseding AMS2451/11A

Plating, Brush, Cobalt

RATIONALE

AMS2451/11B is the result of a Five-Year Review and update of this specification with changes to 3.1 (procedure), 3.2.1 (hydrogen embrittlement), and Section 4 (quality assurance provisions).

AMS2451/11B has been reaffirmed to comply with the SAE Five-Year Review policy.

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

Shall be in accordance with AMS2451.

2. APPLICABLE DOCUMENTS

Shall be in accordance with AMS2451.

3. TECHNICAL REQUIREMENTS

Shall be in accordance with AMS2451 and as follows.

3.1 Procedure

- 3.1.1 Cobalt shall be electrodeposited from a cobalt brush plating solution in accordance with processing instructions from the solution manufacturer.

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Documents

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3.2 Properties

3.2.1 Hydrogen Embrittlement

Shall be in accordance with AMS2451.

4. QUALITY ASSURANCE PROVISIONS

Shall be in accordance with AMS2451.

5. PREPARATION FOR DELIVERY

Shall be in accordance with AMS2451.

6. ACKNOWLEDGMENT

Shall be in accordance with AMS2451.

7. REJECTIONS

Shall be in accordance with AMS2451.

8. NOTES

See AMS2451 and as follows.

8.1 Revision Indicator

A change bar (|) located in the left margin is for the convenience of the user in locating areas where technical revisions, not editorial changes, have been made to the previous issue of this document. An (R) symbol to the left of the document title indicates a complete revision of the document, including technical revisions. Change bars and (R) are not used in original publications, nor in documents that contain editorial changes only.

PREPARED BY AMS COMMITTEE "B"