

AEROSPACE MATERIAL SPECIFICATION



AMS 2451/7

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Plating, Brush, Nickel Low Stress, Medium-Hardness Deposit

1. SCOPE:

1.1 Purpose:

This specification covers the engineering requirements and process for brush plating of medium-hardness, low stress nickel by electrodeposition. It should be used, in conjunction with AMS 2451, for medium-hardness, low stress nickel deposits.

1.2 Application:

This process has been used typically to provide wear resistance and to repair damaged, worn, or mismachined parts in applications requiring hardness, fatigue resistance, and service temperatures up to 450 °F (232 °C), but usage is not limited to such applications.

1.3 Safety - Hazardous Materials:

See AMS 2451.

2. APPLICABLE DOCUMENTS:

See AMS 2451.

3. TECHNICAL REQUIREMENTS:

The requirements of AMS 2451 shall apply as herein amended.

3.1 Procedure:

- 3.1.1 Nickel shall be electrodeposited from a sulfamate nickel brush plating solution containing addition agents to produce the specific hardness in accordance with processing instructions from the solution manufacturer.

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