



AEROSPACE MATERIAL SPECIFICATION

AMS7510™/2

REV. C

Issued 1977-01
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Reaffirmed 2012-02
Stabilized 2017-06

Superseding AMS7510/2B

Magnets, Rare-Earth/Cobalt, Permanent
Samarium-Cobalt, 33/67 - 18 (143) 250

RATIONALE

AMS7510/2C stabilizes this document because it contains mature technology that is not expected to change and thus no further revisions are anticipated.

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1. SCOPE

1.1 Form

This specification covers one type of samarium-cobalt permanent magnets.

1.2 Application

This product has been used typically for components of electrical, electronic, and magnetic devices requiring an energy level of 18 MGOe (143 kT·A/m) for use at service temperatures up to 250 °C, but usage is not limited to such applications.

1.3 Classification

Nominal composition of 33% samarium and 67% cobalt with an energy level of 18 MGOe (143 kT·A/m) with 250 °C maximum service rating.

2. APPLICABLE DOCUMENTS

See AMS 7510.

3. TECHNICAL REQUIREMENTS

3.1 Basic Specification

The complete requirements for procuring the magnets described herein shall consist of this document and the latest issue of the basic specification, AMS 7510.

3.2 Composition

Shall be nominally 33% samarium and 67% cobalt. Composition variations will be permitted if the magnetic properties are met.