



# AEROSPACE MATERIAL SPECIFICATION

**AMS7850™****REV. F**

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| Revised    | 2013-10 |
| Reaffirmed | 2017-04 |
| Stabilized | 2026-03 |

Superseding AMS7850E

Columbium (Niobium) Sheet, Strip, and Foil  
(Composition similar to UNS R04211)

## RATIONALE

AMS7850F has been declared "STABILIZED" by AMS Committee G Titanium and Refractory Metals. This document will no longer be updated and may no longer represent standard industry practice. This document contains mature technology that is not expected to change and thus no further revisions are anticipated. The committee can find no producers for this material.

**NOTE:** Previously, this document was reaffirmed. The last technical update of this document occurred in October 2013. Users of this document should refer to the cognizant engineering organization for disposition of any issues with reports/certifications to the specification, including exceptions listed on the certification. In many cases, the purchaser may represent a sub-tier supplier and not the cognizant engineering organization.

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## 1. SCOPE

### 1.1 Form

This specification covers columbium in the form of sheet, strip, plate, and foil.

### 1.2 Application

This material has been used typically for parts requiring exposure to ultra-high temperatures, but usage is not limited to such applications. Applications in oxidizing atmospheres necessitate a protective coating. Although produced in the cold rolled condition, this material is intended to be used in the annealed condition.

1.3 This alloy is frequently, and equivalently, called Niobium.

## 2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

### 2.1 SAE Publications

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|---------|------------------------------------------------------------------------------------------------------------------|
| AMS2242 | Tolerances, Corrosion and Heat Resistant Steel, Iron Alloy, Titanium, and Titanium Alloy Sheet, Strip, and Plate |
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|---------|--------------------------------------------------------------|
| AMS2809 | Identification, Titanium and Titanium Alloy Wrought Products |
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