



AEROSPACE MATERIAL SPECIFICATION

AMS-QQ-A-250™/24**REV. C**

Issued	1998-06
Revised	1998-11
Cancelled	2009-03
Stabilized	2021-05

Superseding AMS-QQ-A-250/24B

Aluminum Alloy, 7075, Plate and Sheet
(Improved Exfoliation Resistant)

(Composition similar to UNS A97075)

RATIONALE

AMS-QQ-A-250/24C stabilizes this document because it is no longer state of the art and other documents contain equivalent requirements.

STABILIZED NOTICE

AMS-QQ-A-250/24C has been declared "STABILIZED" by SAE AMS Committee D Non-Ferrous Alloys. This document will no longer be updated and may no longer represent standard industry practice. This document was stabilized because it is no longer state of the art and other documents contain technically equivalent requirements. Previously this document was cancelled and superseded by AMS4315. The last technical update of this document occurred in November, 1998. Users of this document should refer to the cognizant engineering organization for disposition of any issues with reports/certifications to this specification; including exceptions listed on the certification.

NOTE: In many cases, the purchaser may represent a sub tier supplier and not the cognizant engineering organization.

AMS Committee D recommends that the following technically equivalent specifications be considered for future procurement. This listing does not constitute authority to substitute these specifications for the "STABILIZED" specification.

Superseding specification: AMS4315

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NOTICE

This document has been taken directly from Federal Specification QQ-A-250/24B and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace QQ-A-250/24B. Any part numbers established by the original specification remain unchanged.

The original Federal Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any material relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this technical report.

The complete requirements for procuring 7075 plate and sheet described herein shall consist of this document and the latest issue of AMS QQ-A-250.

1. SCOPE AND CLASSIFICATION:

1.1 Scope:

This specification covers the specific requirements for aluminum alloy 7075 plate and sheet for applications requiring improved exfoliation resistance.

1.2 Classification:

Sheet shall be furnished in the T76 temper only and plate shall be supplied in the T7651 temper only, as specified (see 6.2). Definitions of these tempers are specified in AMS QQ-A-250 and as follows:

- T76 - Solution heat-treated and artificially aged sufficient to produce improved resistance to exfoliation and stress-corrosion cracking.
- T7651 - Solution heat-treated, stress relieved by stretching to produce a permanent set of 2 percent nominal but not less than 1-1/2 nor more than 3 percent, and artificially aged sufficient to produce improved resistance to exfoliation and stress-corrosion cracking. Plate shall receive no further straightening after stretching.

2. APPLICABLE DOCUMENTS:

See AMS QQ-A-250 and the following:

2.1 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

- ASTM D 1193 Standard Specification for Reagent Water
- ASTM G 34 Standard Method of Test for Exfoliation Corrosion Susceptibility in 7XXX Series Copper Containing Aluminum Alloys (EXCO Test).
- ASTM G 38 Recommended Practices for Making and Using the O-Ring stress-corrosion Cracking Test Specimens

3. REQUIREMENTS:

3.1 Chemical composition:

The chemical composition of the ingots or slabs used for the manufacturer of the plates and sheets shall conform to the requirements specified in table I.