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QQ-A-250/4E
INT. AMENDMENT-2
20 May 1983
USED IN LIEU OF
Amendment-1
October 22, 1974

INTERIM AMENDMENT

TO

FEDERAL SPECIFICATION

ALUMINUM ALLOY 2024, PLATE AND SHEET

This interim amendment was developed by the Naval Air Systems Command, Department of the Navy, Washington, DC 20361, based upon current available technical information. It is recommended that Federal agencies use it in procurement and forward recommendations for changes to the preparing activity at the address shown above.

The General Services Administration has authorized the use of this interim amendment as a valid exception to QQ-A-250/4E, dated January 18, 1971.

PAGE 1

Paragraph 1.2.1, delete "T36" and "T86".

Section 2, add the following:

"Federal Standards

FED-STD-184 - Identification Marking of Aluminum, Magnesium and Titanium."

PAGE 2

Table I, delete in entirety and substitute:

TABLE I. Chemical composition 1/

Element	Percent	
	Minimum	Maximum
Silicon	-	0.50
Iron	-	0.50
Copper	3.8	4.9
Manganese	0.30	0.9

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TABLE I. Chemical composition 1/ (continued)

Element	Percent	
	Minimum	Maximum
Magnesium	1.2	1.8
Chromium	-	0.10
Nickel	-	-
Zinc	-	0.25
Titanium	-	0.15
Others, each	-	0.05
Others, total 2/	-	0.15
Aluminum	Remainder	

1/ Analysis shall routinely be made only for the elements specifically mentioned in table I. If, however, the presence of other elements is indicated or suspected in amounts greater than the specified limits, further analysis shall be made to determine that these elements are not present in excess of specified limits

2/ The sum of those "Others" metallic elements 0.010 percent or more each, expressed to the second decimal before determining the sum."

PAGES 3 and 4

Table II, delete all mechanical property requirements for "T3, T36 and T86" tempers and, as applicable, substitute and add the following for "T3" and "T851" tempers:

"Temper	Width	Thickness	Tensile strength minimum	Yield strength at 0.2 percent offset or at extension indicated		Elongation in 2 in. or 4 times D 1/ 2/. minimum
				Minimum	Extension under load	
	Inches	Inches	P.s.i	P.s.i.	Inch/Inch	Percent
T3 4/	All	0.008 thru 0.009	63,000	42,000	0.0060	10
	All	.010 thru .020	63,000	42,000	.0060	12
	All	.021 thru .128	63,000	42,000	.0060	15
	All	.129 thru .249	64,000	42,000	.0060	15
T851	All	1.001 thru 1.499	66,000	57,000	.0075	5

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Paragraph 3.4, delete in its entirety and substitute the following:

"3.4 Marking. In addition to the marking required in FED-STD-184, plate and sheet in the T3, T4, T81, T351, T361, T851 and T861 tempers shall be identified by a lot number marked in at least one location on each piece."

MILITARY INTEREST:

Custodians

Army-MR
Navy-AS
Air Force-20

Review Activities

Army-AR, EA, MI
Navy-OS
DLA-IS

User Activities

Army-ME
Navy-MC

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA-FSS
NASA-JFK
DOE-BPA

PREPARING ACTIVITY:

NAVY-AS

DoD Project 9535-0346