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MILITARY STANDARD

ALLOY DESIGNATION SYSTEM FOR WROUGHT
AND CAST COPPER AND COPPER ALLOYS



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MIL-STD-455B

DEPARTMENT OF DEFENSE
ARLINGTON, VIRGINIA 22209

ALLOY DESIGNATION SYSTEM FOR WROUGHT AND CAST COPPER AND COPPER ALLOYS
MIL-STD-455

1. This standard has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force.
2. Recommended corrections, additions, or deletions should be addressed to the Army Materials and Mechanics Research Center, Watertown, Mass. 02172, Attention AMXMR-LS.

FOREWORD

The five-digit designation system described herein is the Unified Numbering System (UNS) for Metals and Alloys developed jointly by the American Society for Testing and Materials and the Society of Automotive Engineers to provide a unified numbering system for all commercial metals and alloys. This supersedes the three-digit designation system developed by what is now the Copper Development Association and adopted for use 1 August 1961.

This document provides a cross-reference of copper and copper alloy numbers, previous commonly accepted trade names, and Federal and Military specifications.

MIL-STD-455B

CONTENTS

	Page
1. SCOPE	1
1.1	1
1.1.1 Application	1
1.1.2 Exclusions.	1
2. REFERENCED DOCUMENTS.	1
2.1 Specifications.	1
3. DEFINITIONS	1
4. GENERAL STATEMENT	1
5. DETAIL REQUIREMENTS	1
5.1 Copper and copper alloy coding system	1
5.2 Cross-references.	1

TABLES

Table

I. Cross reference of UNS number, previous commonly accepted trade name, and specification number	3
II. Cross reference of Federal specification number, title, alloy designation, and UNS number.	21
III. Cross reference of Military specification number, title, alloy designation, and UNS number.	27

1. SCOPE

1.1 This standard covers a uniform five-digit system for designating wrought and cast copper and copper alloys, cross-referenced to previous commonly accepted trade names and Federal and Military specifications.

1.1.1 Application. This standard is to be used as a cross-reference only. All contracts and orders for wrought and cast copper and copper alloys should refer to the applicable specifications, and the designations used should be those appearing therein. Copper and copper alloy numbers should not be used unless used in the applicable specification. Conversion to the U.S. system is explained in 5.1.

1.1.2 Exclusions. The following materials are specifically excluded:

(a) Standard coppers and copper alloys not covered by a Federal or Military specification.

(b) Coppers and copper alloys covered by a Federal or Military specification that are not considered standard by industry.

(c) Powder alloys.

2. REFERENCED DOCUMENTS

2.1 SPECIFICATIONS. The specifications listed in tables I, II, and III form a part of this standard to the extent specified herein.

3. DEFINITIONS. Not applicable.

4. GENERAL STATEMENT. Not applicable.

5. DETAIL REQUIREMENTS

5.1 COPPER AND COPPER ALLOY CODING SYSTEM. The numerical designation for each copper and copper alloy consists of the letter "C" and five digits. The letter "C" denotes copper. The first three digits are the same as the three-digit designation appearing in the previous issue of this standard. The final two digits, currently "00", permit the flexibility required for the addition of future coppers and alloys. The individual digits have no significance in themselves. Materials of similar composition, however, are generally grouped together. For instance, coppers are numbers C10100 through C15000 and copper-nickel alloys are numbers C70200 through C72500. New numbers are added by assigning an unused number within each general group.

5.2 CROSS-REFERENCES. Table I lists copper and copper alloy numbers and previous commonly accepted trade name together with the applicable Federal and Military specification designation. Where there is no entry in the "Previous Commonly Accepted Trade Name" column, no name has been officially recognized by the industry. Table II lists Federal Specification numbers and titles and equivalent copper numbers or copper alloy numbers. Table III

MIL-STD-455B

lists Military specification numbers and titles and equivalent copper numbers or copper alloy numbers. The issue designation letter of Government specifications has been included since changes in the specification alloy designation or composition would otherwise cause the reference in this standard to be confusing or useless.

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number.

NOTE. The compositional limits of the referenced specification alloy may not be identical to those of the listed UNS number. Though not directly interchangeable in these cases, such alloys may be considered to be approximately equivalent.

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification No.	
		Federal	Military
W R O U G H T			
C10100	Oxygen Free Electronic Copper	QC-A-673B, type II	MIL-W-85F
		QC-B-825A, type I	MIL-W-3318A
		QC-C-502C	MIL-B-18907
		QC-C-576B	MIL-B-19631B, type MIL-RCu-1
		QC-R-571C, class RCu-1	MIL-B-20292A, Alloy no. 101
		QC-W-343D	
		WW-P-377D	
		WW-T-775A	
		WW-T-799D	
C10200	Oxygen Free Copper	QC-A-673B, type II	MIL-W-85F
		QC-B-825A, type I	MIL-T-3235A, type OF
		QC-C-502C	MIL-W-3318A
		QC-C-576B	MIL-W-6712B
		QC-R-571C, Class RCu-1	MIL-B-18907
		QC-W-343D	MIL-R-19631B, type MIL-RCu-1
		WW-P-377D	MIL-B-20292A, Alloy no. 102
		WW-T-775A	
		WW-T-799D	
C10400	Oxygen Free with Silver	QC-B-825A, type I	MIL-W-3318A
		QC-C-502C	
		QC-C-576B	
		QC-W-343D	

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification No.	
		Federal	Military
C10500	Oxygen Free with Silver	Same as C10400	MIL-W-3318A
C10700	Oxygen Free with Silver	Same as C10400	MIL-W-3318A MIL-B-19231A
C10800	-----	-----	MIL-T-24107
C11000	Electrolytic Tough Pitch Copper	QQ-A-673B, type I QQ-B-650A, Comp. BCu QQ-B-825A, type I QQ-C-502C QQ-C-576B QQ-W-343D WW-P-377D	MIL-W-3318A MIL-W-6712B MIL-C-12166
C11100	Electrolytic Tough Pitch, Anneal Resist Copper	Same as C10400	MIL-W-3318A MIL-C-12166
C11300	Tough Pitch with Silver	Same as C10400	MIL-W-3318A
C11400	Tough Pitch with Silver	QQ-B-825A, type I QQ-C-502C QQ-C-576B	MIL-W-3318A
C11500	Tough Pitch with Silver	Same as C11400	MIL-W-3318A

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C11600	Tough Pitch with Silver	Same as C11400	Same as C10700
C12000	Phosphorus Deoxidized Low Residual Phos- phorus Copper	QQ-C-502C QQ-C-576B WW-P-377D WW-T-775A WW-T-799D	MIL-W-85F MIL-T-3235A, type DLP MIL-W-3318A MIL-B-18907 MIL-B-20292A, Alloy no. 120 MIL-T-24107
C12100	-----	QQ-C-502C QQ-C-576B	MIL-W-3318A MIL-T-24107
C12200	Phosphorus Deoxidized High Residual Phot- phorus Copper	QQ-A-673B, type III QQ-C-502C QQ-C-576B WW-P-377D WW-T-775A WW-T-799D	MIL-T-3235A, type DHP MIL-W-3318A MIL-B-18907 MIL-B-20292A, Alloy no. 122 MIL-T-22214A, Comp. DHP MIL-T-24107
C12300	-----	Same as C12100	Same as C12100
C12500	Fire Refined Tough Pitch Copper	Same as C12100	MIL-W-3318A
C12700	Fire Refined Tough Pitch with Silver	Same as C12100	MIL-W-3318A
C12800	Fire Refined Tough Pitch with Silver	Same as C12100	MIL-W-3318A

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C13000	Fire Refined Tough Pitch with Silver	Same as C12100	MIL-W-3318A MIL-B-20292A, Alloy no. 130
C17000	Beryllium Copper	QQ-C-533B, Alloy no. 170	-----
C17200	Beryllium Copper	QQ-C-530C, Alloy no. 172 QQ-B-533B, Alloy no. 172	MIL-C-21657A, Alloy no. 172
C17300	Beryllium Copper	QQ-C-530C, Alloy no. 173	MIL-C-21657A, Alloy no. 173
C17500	Beryllium Copper	-----	MIL-C-46087A MIL-C-81021
C18200	Chromium Copper	-----	MIL-C-19311B, Alloy no. 182
C18400	Chromium Copper	-----	MIL-C-19311B, Alloy no. 184
C18500	Chromium Copper	-----	MIL-C-19311B, Alloy no. 185
C18900	Copper Welding Rod	QQ-R-571C, Class RCu-2	MIL-R-19631B, type MIL-RCu-2
C21000	Gilding, 95%	QQ-W-321D, Alloy no. 210	MIL-C-21768A, Alloy no. 210
C22000	Commercial Bronze, 90%	QQ-W-321D, Alloy no. 220	MIL-W-85F MIL-C-3383A MIL-W-6712A MIL-B-18907 MIL-B-20292A, Alloy no. 220 MIL-C-21768A, Alloy no. 220

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C23000	Red Brass, 85%	QQ-B-613D, Alloy no. 230	MIL-T-20168B
		QQ-B-626D, Alloy no. 230	
		QQ-W-321D, Alloy no. 230	
		WW-P-351A	
		WW-T-791A, Grade A	
C24000	Low Brass, 80%	QQ-A-660	
		QQ-B-613D, Alloy no. 240	
		QQ-B-626D, Alloy no. 240	
		QQ-B-650A, Comp. D	
		QQ-W-321D, Alloy no. 240	
C26000	Cartridge Brass, 70%	QQ-B-613D, Alloy no. 260 and Comp. 11	MIL-C-50D MIL-C-10375B
		QQ-B-626D, Alloy no. 260 and Comp. 11	MIL-T-20219B
		QQ-B-650A, Comp. C	MIL-S-22499B, Comp. 2
		QQ-W-321D, Alloy no. 260	
C26100	-----	QQ-B-650A, Comp. C	MIL-C-10375B
		QQ-W-321D, Alloy no. 260	MIL-T-20219B MIL-S-22499B, Comp. 2
C26200	-----	QQ-B-613D, Comp. 11	
		QQ-B-626D, Comp. 11	
C26800	Yellow Brass, 66%	QQ-B-613D, Alloy no. 268 and Comp. 11	MIL-W-6712B
		QQ-B-626D, Alloy no. 268 and Comp. 11	

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C27000	Yellow Brass, 65%	QQ-B-613D, Comp. 11 QQ-B-626D, Comp. 11 QQ-W-321D, Alloy No. 270	-----
C27200	-----	Same as C26200	-----
C27400	Yellow Brass, 63%	QQ-B-613D, Comp. 11 QQ-B-626D, Comp. 11 QQ-W-321D, Alloy no. 274	-----
C28000	Muntz Metal, 60%	QQ-B-613D, Comp. 11 QQ-B-626D, Comp. 11 QQ-B-650A, Comp. BCuZn-1 WW-T-791A, Grade C	-----
C29800	Brazing Alloy	QQ-B-650A, Comp. A	-----
C33000	Low Leaded Brass (tube)	QQ-B-613D, Comp. 11 QQ-B-626D, Comp. 11 WW-T-791A, Grade B	MIL-T-46072A, Alloy no. 330
C33100	-----	Same as C26200	MIL-T-46072A, Alloy no. 331
C33200	High Leaded Brass	Same as C26200	MIL-T-46072A, Alloy no. 332
C33500	Low Leaded Brass	Same as C26200	-----
C34000	Medium Leaded Brass, 64½%	Same as C26200	-----

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C34200	High Leaded Brass, 64½%	QQ-B-613D, Alloy no. 342 and Comp. 11 QQ-B-626D, Alloy no. 342 and Comp. 11	-----
C34400	-----	Same as C26200	-----
C34500	-----	QQ-B-626D, Comp. 11	-----
C34700	-----	Same as C26200	-----
C34800	-----	Same as C26200	-----
C35000	Medium Leaded Brass, 62%	Same as C26200	-----
C35300	High Leaded Brass, 62%	Same as C26200	-----
C35600	Extra High Leaded Brass	Same as C26200	-----
C36000	Free Cutting Brass	QQ-B-613D, Comp. 11 QQ-B-626D, Alloy no. 360 and Comp. 11	-----
C37000	Free Cutting Muntz Metal	Same as C26200	MIL-T-46072A, Alloy no. 370
C37700	Forging Brass	QQ-B-626D, Alloy no. 377	MIL-B-13351B

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C41100	-----	-----	MIL-B-13501A, Comp. A
C46200	Naval Brass, 63 $\frac{1}{2}$ %	QQ-B-626D, Comp. 11 QQ-B-637A, Alloy no. 462 QQ-B-639B, Alloy no. 462	-----
C46400	Naval Brass	QQ-B-626D, Comp. 11 QQ-B-637A, Alloy no. 464 QQ-B-639B, Alloy no. 464	MIL-W-6712B
C46500	Naval Brass, Arsenical	Same as C46400	Same as C46400
C46600	Naval Brass, Antimonial	Same as C46400	Same as C46400
C46700	Naval Brass, Phosphorized	Same as C46400	Same as C46400
C47000	Naval Brass, Welding and Brazing Rod	QQ-R-571C, Class RCuZn-A	MIL-R-19631B, type MIL- RBCuZn-A
C47200	Brazing Alloy	QQ-B-650A, Comp. B	-----
C48200	Naval Brass, Medium Leaded	QQ-B-626D, Comp. 11 QQ-B-637A, Alloy no. 482 QQ-B-639B, Alloy no. 482	-----
C48500	Naval Brass, High Leaded	QQ-B-626D, Comp. 11 QQ-B-637A, Alloy no. 485 QQ-B-639B, Alloy no. 485	-----

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C51000	Phosphor Bronze A	QQ-B-750, Comp. A QQ-W-321D, Alloy no. 510	MIL-T-3595B MIL-W-6712B MIL-B-13501A, Comp. C
C51800	Phosphor Bronze	QQ-R-571C, Class RCuSn-A	MIL-R-19631B, type MIL-RCuSn-A
C52100	Phosphor Bronze C	-----	MIL-E-13191B, Class MIL- ECuSn-C MIL-E-23765/3, type MIL- CuSn-C
C52400	Phosphor Bronze D	QQ-B-750, Comp. D	-----
C54400	Phosphor Bronze B-2	QQ-B-750, Comp. B	-----
C60600	-----	QQ-C-450, Alloy no. 606 QQ-C-465A, Alloy no. 606	-----
C61200	-----	QQ-C-450, Alloy no. 612	-----
C61300	-----	QQ-C-450, Alloy no. 613	-----
C61400	Aluminum Bronze D	QQ-C-450, Alloy no. 614 QQ-C-465A, Alloy no. 614	-----
C61800	-----	QQ-R-571C, Class RCuAl-A2	MIL-W-6712B MIL-R-19631B, type MIL- RCuAl-A2 MIL-E-23765/3, type MIL- CuAl-A2

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C62200	-----	QQ-R-571C, Class RCuAl-B	MIL-R-19631B, type MIL-RCuAl-B
C62300	-----	-----	MIL-B-16166, Comp. 1
C62800	-----	QQ-C-450, Alloy no. 628	-----
C63000	-----	QQ-C-465A, Alloy no. 630	MIL-B-16166, Comp. 2
C64200	-----	QQ-C-465A, Alloy no. 642	-----
C64700	-----	QQ-C-591E, Alloy no. 647	-----
C65100	Low Silicon Bronze B	QQ-C-591E, Alloy no. 651	-----
C65500	High Silicon Bronze A	QQ-C-591E, Alloy no. 655	-----
C65600	-----	QQ-R-571C, Class RCuSi-A	MIL-T-8231A
			MIL-E-13191B, Class MIL- ECuSi-A
			MIL-R-19631B, type MIL- RCuSi-A
			MIL-E-23765/3, type MIL- CuSi
C65800	-----	-----	MIL-R-19631B, type MIL- RCuSi-A
C66100	-----	QQ-C-591E, Alloy no. 661	-----
C67000	Manganese Bronze B	QQ-B-728, Class B	-----

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C67500	Manganese Bronze A	QQ-B-728, Class A	-----
C68000	Bronze, Low Fuming (Nickel)	QQ-R-571C, Class RCuZn-B	MIL-R-19631B, type MIL- RCuZn-B
C68100	Bronze, Low Fuming	QQ-R-571C, Class RCuZn-C	MIL-R-19631B, type MIL- RCuZn-C
C70200	-----	-----	MIL-B-18907 MIL-B-20292A, Alloy no. 702
C70600	Copper Nickel, 10%	-----	MIL-T-15005E, Comp. 90-10 MIL-C-15726E, Comp. 90-10 MIL-T-16420J, Comp. 90-10 MIL-T-22214A, Comp. 90-10
C71500	Copper Nickel, 30%	QQ-R-571C, Class RCuNi	MIL-T-15005E, Comp. 70-30 MIL-C-15726E, Comp. 70-30 MIL-T-16420J, Comp. 70-30 MIL-R-19631B, type MIL- RCuNi MIL-E-22200/4A, type MIL- CuNi (70-30) MIL-T-22214A, Comp. 70-30
C73500	-----	QQ-C-585B, Alloy no. 735	-----
C74500	Nickel Silver 65-10	QQ-C-585B, Alloy no. 745 QQ-C-586C, Alloy no. 745 QQ-W-321D, Alloy no. 745	-----

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C75200	Nickel Silver 65-18	QQ-C-585B, Alloy no. 752 QQ-C-586C, Alloy no. 752 QQ-W-321D, Alloy no. 752	-----
C75700	Nickel Silver 65-12	QQ-W-321D, Alloy no. 757	-----
C76200	-----	QQ-C-585B, Alloy no. 762	-----
C76400	-----	QQ-C-586C, Alloy no. 764 QQ-W-321D, Alloy no. 764	-----
C76600	-----	QQ-C-585B, Alloy no. 766	-----
C77000	Nickel Silver 55-18	QQ-C-585B, Alloy no. 770 QQ-C-586C, Alloy no. 770 QQ-W-321D, Alloy no. 770	-----
C77300	-----	QQ-R-571C, Class RBGuzn-D	MIL-R-19631B, type MIL- RBGuzn-D
C79200	-----	QQ-C-586C, Alloy no. 792	-----
C A S T			
C81500	Chrome Copper	-----	MIL-C-19310A
C82000	10C	QQ-C-390A, Alloy no. 820	-----
C82400	165C	QQ-C-390A, Alloy no. 824	-----

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C82500	20C	QQ-C-390A, Alloy no. 825	MIL-C-11866B, Comp. 17 MIL-C-17324 MIL-C-22087, Comp. 10
C82600	245C	QQ-C-390A, Alloy no. 826	-----
C82700	-----	QQ-C-390A, Alloy no. 827	-----
C82800	275C	QQ-C-390A, Alloy no. 828	-----
C83600	Leaded Red Brass, Composition Bronze, Ounce Metal	QQ-C-390A, Alloy no. 836	MIL-C-11866B, Comp. 25 MIL-C-15345C, Alloy 1 MIL-C-22087, Comp. 2 MIL-C-22229, Comp. 2
C83800	Leaded Red Brass, Commercial Red Brass	QQ-C-390A, Alloy no. 838	-----
C84200	Leaded Semi-Red Brass	QQ-C-390A, Alloy no. 842	-----
C84400	Leaded Semi-Red Brass	QQ-C-390A, Alloy no. 844	-----
C84800	Leaded Semi-Red Brass	QQ-C-390A, Alloy no. 848	-----
C85200	Leaded Yellow Brass	QQ-C-390A, Alloy no. 852	MIL-C-15345C, Alloy 28
C85400	Commercial No. 1 Yellow Brass	QQ-C-390A, Alloy no. 854	MIL-C-15345C, Alloy 23

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C85500	60-40 Yellow Brass	QQ-C-390A, Alloy no. 855	MIL-C-15345G, Alloy 2
C85700	Yellow Brass	QQ-C-390A, Alloy no. 857	MIL-C-15345G, Alloy 3
C85800	Die Casting Yellow Brass	-----	MIL-C-15894, Class 1
C86100	High Strength Yellow Brass	QQ-C-390A, Alloy no. 861	MIL-C-15345G, Alloy 5 MIL-C-22087, Comp. 7 MIL-C-22229, Comp. 10
C86200	High Strength Yellow Brass	QQ-C-390A, Alloy no. 862	MIL-C-11866B, Comp. 20 MIL-C-22087, Comp. 9 MIL-C-22229, Comp. 9
C86300	High Strength Yellow Brass	QQ-C-390A, Alloy no. 863	MIL-C-11866B, Comp. 21 MIL-C-15345G, Alloy 6 MIL-C-22087, Comp. 9 MIL-C-22229, Comp. 8
C86400	Leaded High Strength Yellow Brass	QQ-C-390A, Alloy no. 864	-----
C86500	High Strength Yellow Brass	QQ-C-390A, Alloy no. 865	MIL-C-15345G, Alloy 4 MIL-C-22087, Comp. 5 MIL-C-22229, Comp. 7
C86800	Nickel Manganese Bronze	QQ-C-390A, Alloy no. 868	MIL-B-19708

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C87200	Silicon Bronze	QQ-C-390A, Alloy no. 872	MIL-C-11866B, Comp. 19 MIL-C-22229, Comp. 4
C87400	Silicon Brass	QQ-C-390A, Alloy no. 874	-----
C87500	Silicon Brass	-----	MIL-C-22087, Comp. 4
C87800	Die Cast Silicon Brass	-----	MIL-B-15894B, Class 3
C87900	Silicon Yellow Brass	-----	MIL-B-15894B, Class 2
C90300	Tin Bronze, "C" Bronze	QQ-C-390A, Alloy no. 903	MIL-C-11866B, Comp. 26 MIL-C-15245C, Alloy 8 MIL-C-22057, Comp. 3 MIL-C-22229, Comp. 1
C90500	Tin Bronze, Gun Metal	QQ-C-390A, Alloy no. 905	-----
C90700	Tin Bronze	QQ-C-390A, Alloy no. 907	-----
C91000	Tin Bronze	QQ-C-390A, Alloy no. 910	-----
C91300	Tin Bronze	QQ-C-390A, Alloy no. 913	-----
C91500	Leaded Nickel Tin Bronze	QQ-C-390A, Alloy no. 915	-----
C91600	Nickel Gear Bronze	-----	MIL-C-15245C, Alloy 23

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C92200	Navy "M", Valve Bronze	QQ-C-390A, Alloy no. 922	MIL-C-15345G, Alloy 9 MIL-B-16541B
C92300	Leaded Tin Bronze, Leaded "C" Bronze	QQ-C-390A, Alloy no. 923	MIL-C-15345G, Alloy 10
C92500	Leaded Tin Bronze	QQ-C-390A, Alloy no. 925	-----
C92700	Leaded Tin Bronze	QQ-C-390A, Alloy no. 927	-----
C93200	High-Leaded Tin Bronze, Bearing Bronze	QQ-C-390A, Alloy no. 932	MIL-C-15345G, Alloy 12
C93400	High-Leaded Tin Bronze	QQ-C-390A, Alloy no. 934	MIL-C-15345G, Alloy 11 MIL-C-22087, Comp. 1 MIL-C-22229, Comp. 3
C93500	High-Leaded Tin Bronze	QQ-C-390A, Alloy no. 935	-----
C93700	High-Leaded Tin Bronze, Bushing and Bearing Bronze	QQ-C-390A, Alloy no. 937	-----
C93800	High-Leaded Tin Bronze, Anti-Acid Metal	QQ-C-390A, Alloy no. 938	-----
C93900	High-Leaded Tin Bronze	QQ-C-390A, Alloy no. 939	-----

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C94000	-----	QQ-C-390A, Alloy no. 940	-----
C94100	-----	QQ-C-390A, Alloy no. 941	-----
C94300	High-Leaded Tin Bronze	QQ-C-390A, Alloy no. 943	-----
C94600	-----	QQ-C-390A, Alloy no. 946	-----
C94700	Nickel Tin Bronze	QQ-C-390A, Alloy no. 947	MIL-B-17528A, Alloy no. 1
C94800	Leaded Nickel Tin Bronze	QQ-C-390A, Alloy no. 948	MIL-B-17528A, Alloy no. 2
C95200	Aluminum Bronze 9A	QQ-C-390A, Alloy no. 952	MIL-C-22087, Comp. 6 MIL-C-22229, Comp. 5
C95300	Aluminum Bronze 9B	QQ-C-390A, Alloy no. 953	MIL-C-11866B, Comp. 22
C95400	Aluminum Bronze 9C	QQ-C-390A, Alloy no. 954	MIL-C-15345G, Alloys 13, 15
C95500	Aluminum Bronze 9D	QQ-C-390A, Alloy no. 955	MIL-C-15345G, Alloys 14, 15 MIL-C-22087, Comp. 8 MIL-C-22229, Comp. 6
C95700	Manganese Aluminum Bronze	QQ-C-390A, Alloy no. 957	MIL-B-24480
C95800	Alpha Nickel Aluminum Bronze	QQ-C-390A, Alloy no. 958	MIL-C-15345G, Alloy 28 MIL-B-24480

MIL-STD-455B

Table I. Cross reference of UNS (copper or copper alloy) number, previous commonly accepted trade name, and specification number. (Continued)

UNS Number (Copper or Copper Alloy No.)	Previous commonly accepted trade name	Specification	
		Federal	Military
C96200	90:10 Copper Nickel	QQ-C-390A, Alloy no. 962	MIL-C-15345G, Alloy 25 MIL-C-20159B, Type II
C96400	70:30 Copper Nickel	QQ-C-390A, Alloy no. 964	MIL-C-15345G, Alloy 24 MIL-C-20159B, Type I
C96600	717C Beryllium Copper- Nickel	-----	MIL-C-81519
C97600	20% Nickel Silver, Dairy Metal	-----	MIL-C-17112A

Table II. Cross reference of Federal specification number, title, alloy designation, and UNS (copper or copper alloy) number.

NOTE: The compositional limits of the referenced UNS number may not be identical to those of the listed specification alloy. Though not directly interchangeable in these cases, such alloys may be considered to be approximately equivalent.

Specification No.	Specification Title	Specification alloy designation	UNS Number (Copper or Copper Alloy No.)
QQ-A-660	Anodes, Brass	-----	C24000
QQ-A-673B	Anode, Copper	Type II	C10100
QQ-B-613D	Brass, Leaded and Nonleaded: Flat Products (Plate, Bar, Sheet, and Strip)	Alloy no. 230	C23000
		Alloy no. 240	C24000
		Alloy no. 260	C26000
		Alloy no. 268	C26800
		Alloy no. 342	C34200
		Alloy no. 353	C35300
QQ-B-626D	Brass, Leaded and Nonleaded: Rod, Shapes, Forgings and Flat Products with Finished Edges (Bar and Strip)	Comp. 11	a/
		Alloy no. 230	C23000
		Alloy no. 240	C24000
		Alloy no. 260	C26000
		Alloy no. 268	C26800
		Alloy no. 342	C34200
		Alloy no. 353	C35300
		Alloy no. 360	C36000
		Alloy no. 377	C37700
		Comp. 11	b/
QQ-B-637A	Brass, Naval: Rod, Wire, Shapes, Forgings, and Flat Products with Finished Edges (Bar, Flat Wire, and Strip)	Alloy no. 462	C46200
		Alloy no. 464	C46400
		Alloy no. 482	C48200
		Alloy no. 485	C48500

MIL-STD-455B

Table II. Cross reference of Federal specification number, title, alloy designation, and UNS (copper or copper alloy) number. (Continued)

Specification No.	Specification Title	Specification alloy designation	UNS Number (Copper or Copper Alloy No.)
QQ-B-639B	Brass, Naval: Flat Products (Plate, Bar, Sheet, and Strip)	Alloy no. 462 Alloy no. 464 Alloy no. 482 Alloy no. 485	C46200 C46400 C48200 C48500
QQ-B-650A	Brazing Alloy, Copper, Copper-Zinc, and Copper-Phosphorus	Comp. A Comp. B Comp. C Comp. D	C29800 C47200 C26000, C26100 C24000
QQ-B-728	Bronze Manganese; Rod, Shapes, Forgings, and Flat Products (Flat Wire, Strip, Sheet, Bar, and Plate)	Class A Class B	C67500 C67000
QQ-B-750	Bronze, Phosphor; Bar, Plate, Rod, Sheet, Strip, Flat Wire, and Structural and Special Shaped Sections	Comp. A Comp. B Comp. D	C51000 C54400 C52400
QQ-B-825A	Bus Bar; Copper, Aluminum, or Aluminum-Alloy	Type I	e/
QQ-C-390A	Copper Alloy Castings (Including Cast Bar)	d/	e/
QQ-C-450	Copper-Aluminum Alloy (Aluminum Bronze) Plate, Sheet, Strip, and Bar (Copper Alloy Numbers 606, 612, 613, 614, and 628)	Alloy no. 606 Alloy no. 612 Alloy no. 613 Alloy no. 614 Alloy no. 628	C60600 C61200 C61300 C61400 C62800

Table II. Cross reference of Federal specification number, title, alloy designation, and UNS (copper or copper alloy) number. (Continued)

Specification No.	Specification Title	Specification alloy designation	UNS Number (Copper or Copper Alloy No.)
QQ-C-465A	Copper-Aluminum Alloys (Aluminum Bronze) (Copper Alloy Numbers, 606, 614, 630, and 642); Rod, Flat Products with Finished Edges (Flat Wire, Strip, and Bar), Shapes, and forgings	Alloy no. 606	C60600
		Alloy no. 614	C61400
		Alloy no. 630	C63000
		Alloy no. 642	C64200
QQ-C-502C	Copper Rods and Shapes; and Flat Products with Finished Edges (Flat Wire, Strips and Bars)	-----	ℓ/
QQ-C-530C	Copper-Beryllium Alloy Bar, Rod, and Wire (Copper Alloy Numbers 172 and 173)	Alloy no. 172	C17200
		Alloy no. 173	C17300
QQ-C-533B	Copper-Beryllium Alloy Strip (Copper Alloy Numbers 170 and 172)	Alloy no. 170	C17000
		Alloy no. 172	C17200
QQ-C-576B	Copper Flat Products with Slit, Slit and Edge-Rolled, Sheared, Sawed, or Machined Edges, (Plate, Bar, Sheet, and Strip)	-----	ℓ/
QQ-C-585B	Copper-Nickel-Zinc Alloy Plate, Sheet, Strip and Bar (Copper Alloy Numbers 735, 745, 752, 762, 766, and 770)	Alloy no. 735	C73500
		Alloy no. 745	C74500
		Alloy no. 752	C75200
		Alloy no. 762	C76200
		Alloy no. 766	C76600
		Alloy no. 770	C77000

Table II. Cross reference of Federal specification number, title, alloy designation, and UNS (copper or copper alloy) number. (Continued)

Specification No.	Specification Title	Specification alloy designation	UNS Number (Copper or Copper Alloy No.)
QQ-C-586C	Copper-Nickel-Zinc Alloy; Rod, Shapes, and Flat Products with Finished Edges (Flat Wire, Strip, and Bar)	Alloy no. 745	C74500
		Alloy no. 752	C75200
		Alloy no. 764	C76400
		Alloy no. 770	C77000
		Alloy no. 792	C79200
		Alloy no. 794	C79400
QQ-C-591E	Copper-Silicon, Copper-Zinc-Silicon, and Copper-Nickel-Silicon Alloys: Rod, Wire, Shapes, Forgings, and Flat Products (Flat Wire, Strip, Sheet, Bar, and Plate)	Alloy no. 647	C64700
		Alloy no. 651	C65100
		Alloy no. 653	C65300
		Alloy no. 655	C65500
		Alloy no. 661	C66100
QQ-R-571C	Rods, Welding, Copper and Nickel Alloys	Class RCu-1	C10100, C10200
		Class RCuSi-A	C65600
		Class RCuSn-A	C51800
		Class RCuNi	C71500
		Class RCuZn-A	C47000
		Class RCuZn-B	C68000
		Class RCuZn-C	C68100
		Class RCuZn-D	C77300
		Class RCuAl-A2	C61800
		Class RCuAl-B	C62200

Table II. Cross reference of Federal specification number, title, alloy designation, and UNS (copper or copper alloy) number. (Continued)

Specification No.	Specification Title	Specification alloy designation	UNS Number (Copper or Copper Alloy No.)
QQ-W-321D	Wire, Copper Alloy	Alloy no. 210	C21000
		Alloy no. 220	C22000
		Alloy no. 230	C23000
		Alloy no. 240	C24000
		Alloy nos. 260, 261	C26000, C26100
		Alloy no. 270	C27000
		Alloy no. 274	C27400
		Alloy no. 510	C51000
QQ-W-343D	Wire, Electrical (Uninsulated)	Alloy no. 745	C74500
		Alloy no. 752	C75200
		Alloy no. 764	C76400
		Alloy no. 770	C77000
		-----	C10100, C10200, C11000, C11100
		Alloy no. 230	C23000
		-----	C10100, C10200, C11000, C12000, C12200
		-----	-----
WW-P-351A	Pipe; Red Brass, (Copper Alloy No. 230), Seamless Standard Pipe Size, Regular and Extra-Strong		
WW-P-377D	Pipe, Copper, Seamless, Standard		

Table II. Cross reference of Federal specification number, title, alloy designation, and UNS (copper or copper alloy) number. (Continued)

Specification No.	Specification Title	Specification alloy designation	UNS Number (Copper or Copper Alloy No.)
WW-T-775A	Tube, Copper, Seamless, (for Refrigeration and General Use)	-----	C10100, C10200, C12000, C12200
WW-T-791A	Tube, Brass, Seamless	Grade A Grade B Grade C	C23000 C33000 C28000
WW-T-799D	Tube, Copper, Seamless, (for Use with Solder- Flared- or Compression-Type Fittings)	OF DLP	C10100, C10200 C12000, C12200

- a/ The following copper alloy numbers are applicable: 260, 261, 262, 268, 270, 274, 280, 330, 331, 332, 335, 340, 342, 344, 347, 348, 350, 353, 356, 360, and 370.
- b/ The following copper alloy numbers are applicable: 260, 261, 262, 268, 270, 274, 280, 330, 331, 332, 335, 340, 342, 344, 347, 348, 350, 353, 356, 360, 370, 462, 464, 465, 466, 467, 482, and 485.
- c/ The following copper numbers are applicable: 101, 102, 104, 105, 107, 110, 111, 114, 115, and 116.
- d/ Specification alloy designations are as listed in the series 820-964 in column 3 of Table I.
- e/ Copper alloy numbers are as listed in the series C82000-C96400 in column 1 of Table I for the corresponding alloy designations of QQ-C-390A.
- f/ The following copper numbers are applicable: 101, 102, 104, 105, 107, 110, 111, 113, 114, 115, 116, 120, 121, 122, 123, 125, 127, 128, and 130.

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number).

NOTE. The compositional limits of the referenced UNS number may not be identical to those of the listed specification alloy. Though not directly interchangeable in these cases, such alloys may be considered to be approximately equivalent.

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-C-50D	Copper Alloy Number 260 (Cartridge Brass, 70%); Sheet, Strip, Plate, Bar, and Discs	-----	C26000
MIL-W-85F	Waveguides, Rigid, Rectangular General Specification for	-----	C10100, C10200, C12000, C22000
MIL-T-3235A	Tube, Copper, Seamless (for Torpedo Use)	Type OF Type DLP Type DHP	C10200 C12000 C12200
MIL-W-3318A	Wire, Copper; and Wire, Steel, Copperclad (W-154 and WS-24/U)	-----	a/
MIL-C-3383A	Cups, Bullet Jacket, Copper Alloy, for Small Arms Ammunition	-----	C22000
MIL-T-3959B	Tubing, Phosphor Bronze: (CDA No. 510) Round, Seamless	-----	C51000
MIL-W-6712B	Wire; Metallizing	-----	b/
MIL-T-8231A	Tubes: Copper-Silicon-Bronze, Seamless, for Aircraft	-----	C65500

MIL-STD-455B

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number). (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-C-10375B	Cups, Case, Cartridge, Copper Alloy (for Small Arms Ammunition)	-----	C26000, C26100
MIL-C-11866B	Castings, Precision, Non-Ferrous	Comp. 17	C32500
		Comp. 18	C/
		Comp. 19	C87200
		Comp. 20	C86200
		Comp. 21	C86300
		Comp. 22	C95300
		Comp. 23	C95400
		Comp. 24	C/
		Comp. 25	C83600
		Comp. 26	C90300
		Comp. 27	C/
		Comp. 28	C85200
MIL-C-12166	Copper Rod for Crusher Cylinders or Pressure Cylinders	-----	C11000, C11100
MIL-E-13191B	Electrodes, Welding, Covered, Bronze; for General Use	Class MIL-ECuSi-A	C65600, C65800
		Class MIL-ECuSn-A	C51800
		Class MIL-ECuSn-C	C52100
MIL-C-13351B	Copper Alloy Number 377 Forgings	-----	C37700
MIL-B-13501A	Bearings and Bushings, Brass and Bronze, Machined or Formed	Comp. A	C41100
		Comp. C	C51000

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number) (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-T-15005E	Tubes, 70-30 and 90-10 Copper Nickel Alloy, Condenser and Heat Exchanger	Comp. 90-10 Comp. 70-30	C70600 C71500
MIL-C-15345C	Castings, Nonferrous, Centrifugal	Alloy no. 1 Alloy no. 2 Alloy no. 3 Alloy no. 4 Alloy no. 5 Alloy no. 6 Alloy no. 7 Alloy no. 8 Alloy no. 9 Alloy no. 10 Alloy no. 11 Alloy no. 12 Alloy no. 13 Alloy no. 14 Alloy no. 15 Alloy no. 23 Alloy no. 24 Alloy no. 25 Alloy no. 28	C83600 C85500 C85700 C86500 C86100 C86300 C90300 C92200 C92300 C93400 C93200 C95400 C95500 C95400, C95500 C91600 C96400 C96200 C95800
MIL-C-15726E	Copper-Nickel Alloy, Rod, Flat Products (Flat Wire, Strip, Sheet, Bar, and Plate) and Forgings	Comp. 90-10 Comp. 70-30	C70600 C71500
MIL-B-15894B	Brass: Die Castings	Class 1 Class 2 Class 3	C85800 C87900 C87800

MIL-STD-455B

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number). (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-B-16166B	Bronze, Aluminum: Forgings, Heat-Treated	Comp. 1 Comp. 2	C62300 C63000
MIL-T-16420J	Tube, 70-30 and 90-10 Copper-Nickel Alloy, Seamless and Welded	Comp. 90-10 Comp. 70-30	C70600 C71500
MIL-B-16541B	Bronze, Valve: Castings	-----	C92200
MIL-T-16992B	Tube, Aluminum-Brass Arsenical (Copper Alloy No. 687): Condenser and Heat Exchanger	Alloy no. 687	C68700
MIL-C-17112A	Copper-Nickel-Zinc Alloy (Nickel-Silver); Castings	Alloy no. 976	C97600
MIL-C-17324A	Copper-Beryllium-Alloy: Precision Castings	-----	C82500
MIL-B-17528A	Bronze Castings, Tin-Nickel	Alloy no. 1 Alloy no. 2	C94700 C94800
MIL-B-18907	Bands, Projectile Rotating	-----	d/
MIL-B-19231A	Bars, Copper, Silver Bearing (for Commutators)	-----	C11600
MIL-C-19310A	Copper-Chromium-Alloy Castings	Alloy no. 815	C81500

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number). (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-C-19311B	Copper-Chromium-Alloy Forgings, Wrought Rod, Bar, and Strip (Copper Alloy Numbers 182, 184, and 185)	Alloy no. 182	C18200
		Alloy no. 184	C18400
		Alloy no. 185	C18500
MIL-R-19631B	Rods, Welding, Copper and Copper Alloy	Type MIL-RCu-1	C10100, C10200
		Type MIL-RCu-2	C18900
		Type MIL-RCuN1	C71500
		Type MIL-RCuSi-A	C65600, C65800
		Type MIL-RCuSn-A	C51800
		Type MIL-RBCuZn-A	C47000
		Type MIL-RCuZn-B	C68000
		Type MIL-RCuZn-C	C68100
		Type MIL-RBCuZn-D	C77300
		Type MIL-RCuA-A2	C61800
MIL-B-19708	Brass, High Strength Yellow (Nickel Manganese Bronze) Castings	-----	C62200
		-----	C86300
MIL-C-20159B	Copper-Nickel Alloy (70-30 and 90-10): Castings	Type I	C96400
		Type II	C96200
MIL-T-20168B	Tubes, Brass (Red Brass), Seamless	-----	C23000
MIL-T-20219B	Tubes, Brass, Voice and Pneumatic	-----	C26000, C26100

MIL-STD-455B

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number). (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-B-20292A	Blanks, Rotating Band, for Projectiles	Alloy no. 101 Alloy no. 102 Alloy no. 120 Alloy no. 122 Alloy no. 220	C10100 C10200 C12000 C12200 C22000
MIL-C-21657A	Copper-Beryllium Alloy, Low Magnetic Effect (for Special Purpose Tools and Equipment)	Alloy no. 172 Alloy no. 173	C17200 C17300
MIL-C-21768A	Copper Alloy Numbers 210 (Gilding, 95%) and 220 (Commercial Bronze, 90%) Sheet and Strip	Alloy no. 210 Alloy no. 220	C21000 C22000
MIL-C-22087	Copper Alloy Investment Castings	Comp. 1 Comp. 2 Comp. 3 Comp. 4 Comp. 5 Comp. 6 Comp. 7 Comp. 8 Comp. 9 Comp. 10	C93400 C83600 C90300 C87500 C86500 C95200 C86100 C95500 C86200, C86300 C82500
MIL-E-22200/4A	Electrodes, Welding, Covered, Copper-Nickel Alloy	Type MIL-CuNi (70:30)	C71500

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number). (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-T-22214A	Tube, Condenser and Heat Exchanger with Integral Fins (Copper Alloy Numbers 715, 706, and 122)	Comp. 70-30 Comp. 90-10 Comp. DHP	C71500 C70600 C12200
MIL-C-22229	Copper Base Alloy Castings (for Pressure Tight Applications)	Comp. 1 Comp. 2 Comp. 3 Comp. 4 Comp. 5 Comp. 6a Comp. 6b Comp. 7 Comp. 8 Comp. 9 Comp. 10	C90300 C83600 C93400 C87200 C95200 C95500 C86500 C86300 C86200 C86100
MIL-S-22499B	Shim Stock, Laminated	Comp. 2	C26000, C26100
MIL-E-23765/3	Electrodes, Welding, Bare, Copper and Copper Alloy	Type MIL-CuSi Type MIL-CuSn-C Type MIL-CuAl-A2 Type MIL-CuZnNi-Al Type MIL-CuNiAl	C65600 C52100 C61800 C63200
MIL-T-24107	Tube, Copper, (Seamless)	-----	C10800, C12000, C12100, C12200, C12300

Table III. Cross reference of Military specification number, title, alloy designation, and UNS (copper or copper alloy number). (Continued)

Specification No.	Specification Title	Specification Alloy Designation	UNS Number (Copper or Copper Alloy No.)
MIL-B-24480	Bronze, Nickel-Aluminum Castings, for Seawater Service	-----	C95700, C95800
MIL-T-46072A	Tube, Round, Copper Alloy Numbers 330, 331, 332, and 370 (Leaded Brass), Seamless	Alloy no. 330 Alloy no. 331 Alloy no. 332 Alloy no. 370	C33000 C33100 C33200 C37000
MIL-C-46087A	Copper Alloy Number 175 (Copper-Cobalt-Beryllium) Bar and Rod	-----	Cl7500
MIL-C-81021	Copper-Cobalt-Beryllium Alloy (Copper Alloy No. 175), Strip	-----	Cl7500
MIL-C-81519	Castings: Copper Alloy (CDA No. 717) (Copper-Nickel-Beryllium)	-----	C96600

a/ The following copper numbers are applicable: 101, 102, 104, 105, 110, 111, 114, 116, 120, 121, 122, 123, 125, 127, 128, and 130.

b/ The following copper and copper alloy numbers are applicable: 102, 110, 220, 268, 464, 510, and 618.

c/ No equivalent UNS number.

d/ The following copper and copper alloy numbers are applicable: 101, 102, 120, 220, and 702.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

(Copies of this standard for military use may be obtained as indicated in the forward to the index of Military Specifications and Standards.)

(Copies of this standard may be obtained for other than official use by individuals, firms, and contractors from the Superintendent of Documents, U. S. Government Printing Office, Washington, D.C. 20402.)

CUSTODIANS:

Army - MR
Navy - SH
Air Force - 11

USER ACTIVITIES:

Army - WC
Navy - MC, OS
Air Force - None

REVIEW ACTIVITIES:

Army - MR, MI, AV, AT
Navy - YD, AS, SH
Air Force - 84
DSA - IS

PREPARING ACTIVITY

Army - MR

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

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b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
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