



# Application Datasheet

## Standard Designation for Cast Copper Alloys

Revision Date: October 21, 2024

### High Copper Alloys (C81400 - C83299)

\* = are alloys registered with the U.S. EPA as Antimicrobial.

UNS #	Cu		Pb		Sn		Zn		Fe		Ni		Al		Ag		Be		Co		Cr		Si		Other Named Elements		Status	
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%		
C81400 Copper Beryllium 70C		Rem <sup>(1)</sup>															0.02	0.10			0.6	1.0						active
C81500 Chrome Copper		Rem <sup>(1)</sup>	0.02		0.10		0.10		0.10				0.10								0.40	1.5		0.15				active
C81540	95.1 <sup>(1)(2)</sup>		0.02		0.10		0.10		0.15	2.0	3.0 <sup>(3)</sup>		0.10								0.10	0.6	0.40	0.8				active
C81700* Copper Beryllium	94.2 <sup>(1)</sup>									0.25	1.5				0.8	1.2	0.30	0.55	0.25	1.5								inactive 03/92
C81800* Copper Beryllium 50C	95.6 <sup>(1)</sup>														0.8	1.2	0.30	0.55	1.4	1.7								inactive 03/92

UNS #	Cu		Pb		Sn		Zn		Fe		Ni		Al		Ag		Be		Co		Cr		Si		Other Named Elements		Status	
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%		
C82000* Copper Beryllium 10C		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.10		0.20		0.10				0.45	0.8	2.40 <sup>(4)</sup>	2.70		0.09		0.15			active
C82100* Copper Beryllium	95.5										0.25	1.5						0.35	0.8	0.25	1.5						inactive 03/92	
C82200* Copper Beryllium 3C		Rem <sup>(1)</sup>									1.0	3.0						0.35	0.8		0.30			0.15			active	
C82400* Copper Beryllium 165C		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.20		0.20		0.15				1.60	1.85	0.20	0.65		0.09				active	
C82500* Copper Beryllium 20C		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.25		0.20		0.15				1.90	2.25	0.35 <sup>(4)</sup>	0.70		0.09	0.20	0.35		active	
C82510* Copper Beryllium 21C		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.25		0.20		0.15				1.90	2.15	1.0	1.2		0.09	0.20	0.35		active	
C82600* Copper Beryllium 245C		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.25		0.20		0.15				2.25	2.55	0.35	0.65		0.09	0.20	0.35		active	
C82700* High Copper Alloy		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.25	1.0	1.5		0.15				2.35	2.55				0.09		0.15		active	

UNS #	Cu		Pb		Sn		Zn		Fe		Ni		Al		Ag		Be		Co		Cr		Si		Other Named Elements		Status		
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%		Min%	Max%
C82800* Copper Beryllium 275C		Rem <sup>(1)</sup>		0.02		0.10		0.10		0.25		0.20		0.15				2.50	2.85	0.35	0.70 <sup>(4)</sup>		0.09	0.20	0.35				active

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(1) = Cu + Sum of Named Elements 99.5% min.

(2) = Cu value includes Ag.

(3) = Ni value includes Co.

(4) = Ni + Co.