



Application Datasheet

Standard Designation for Cast Copper Alloys

Revision Date: November 13, 2018

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 Beryllium Copper 70C		Rem ⁽¹⁾															0.02	0.10			0.6	1.0						active
C81500 Chrome Copper		Rem ⁽¹⁾	0.02		0.10		0.10		0.10				0.10								0.40	1.5		0.15				active
C81540	95.1 ⁽¹⁾⁽²⁾		0.02		0.10		0.10		0.15	2.0	3.0 ⁽³⁾		0.10								0.10	0.6	0.40	0.8				active
C81700* Copper Beryllium	94.2 ⁽¹⁾									0.25	1.5			0.8	1.2	0.30	0.55	0.25	1.5									inactive 03/92
C81800* Beryllium Copper 50C	95.6 ⁽¹⁾													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* Beryllium Copper 10C		Rem ⁽¹⁾		0.02		0.10		0.10		0.10		0.20 ⁽⁴⁾		0.10				0.45	0.8	2.40 ⁽⁴⁾	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* Beryllium Copper 30C		Rem ⁽¹⁾									1.0	3.0					0.35	0.8		0.30				0.15			active	
C82400* Beryllium Copper 165C		Rem ⁽¹⁾		0.02		0.10		0.10		0.20		0.20		0.15			1.60	1.85	0.20	0.65		0.09					active	
C82500* Beryllium Copper 20C		Rem ⁽¹⁾		0.02		0.10		0.10		0.25		0.20 ⁽⁴⁾		0.15			1.90	2.25	0.35 ⁽⁴⁾	0.70		0.09	0.20	0.35			active	
C82510* Beryllium Copper 21C		Rem ⁽¹⁾		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* Beryllium Copper 245C		Rem ⁽¹⁾		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 ⁽¹⁾		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%		
C82800* Beryllium Copper 275C		Rem ⁽¹⁾		0.02		0.10		0.10		0.25		0.20 ⁽⁴⁾		0.15				2.50	2.85	0.35	0.70 ⁽⁴⁾		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.