



Application Datasheet

Standard Designation for Cast Copper Alloys

Revision Date: October 21, 2024

Copper-Nickel-Iron Alloys (Copper-Nickels) (C96000 - C96999)

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

UNS #	Cu		Pb		Fe		Ni		Be		C		Mn		Si		Nb		Other Named Elements		Status
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	
C96200*		Rem ⁽¹⁾		0.01	1.0	1.8	9.0 ⁽²⁾	11.0				0.10		1.5		0.50		1.0 ⁽³⁾		0.02 P 0.02 S	active
C96300*		Rem ⁽¹⁾		0.01	0.50	1.5	18.0	22.0 ⁽²⁾				0.15	0.25	1.5		0.50	0.50	1.5		0.02 P 0.02 S	active
C96400* 70-30 Copper Nickel		Rem ⁽¹⁾		0.01	0.25	1.5	28.0	32.0 ⁽²⁾				0.15		1.5		0.50	0.50	1.5		0.02 P 0.02 S	active
C96600*		Rem ⁽¹⁾		0.01	0.8	1.1	29.0	33.0 ⁽²⁾	0.40	0.7				1.0		0.15					active
C96700*		Rem ⁽¹⁾		0.01	0.40	1.0	29.0	33.0 ⁽²⁾	1.1	1.2			0.40	1.0		0.15			0.15 Ti 0.15 Zr	0.35 Ti 0.35 Zr	active
C96800*		Rem ⁽⁴⁾⁽¹⁾		0.005		0.50	9.5 ⁽²⁾	10.5					0.05	0.30		0.05	0.10	0.30	7.5 Sn 0.005 Mg	8.5 Sn 1.0 Zn 0.15 Mg	active
C96900*		Rem ⁽¹⁾		0.02		0.50	14.5 ⁽²⁾	15.5					0.05	0.30				0.10	7.5 Sn	8.5 Sn 0.50 Zn 0.15 Mg	active
C96950*		Rem ⁽¹⁾		0.02		0.50	11.0 ⁽²⁾	15.5					0.05	0.40		0.30		0.10	5.8 Sn	8.5 Sn 0.15 Mg	active
C96970*		Rem ⁽¹⁾		0.02		0.50	8.5 ⁽²⁾	9.5						0.30				0.10	5.5 Sn	6.5 Sn 0.50 Zn 0.15 Mg	active

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

(2) = Ni value includes Co.

(3) = When product or casting is intended for subsequent welding applications, and so specified by the purchaser the Nb content shall be 0.40% max.

(4) = The following additional maximum impurity limits shall apply: 0.10% Al, 0.001% B, 0.001% Bi, 0.005% P, 0.0025% S, 0.02% Sb, 0.01%Ti.