



Application Datasheet

Standard Designation for Cast Copper Alloys

Revision Date: May 13, 2024

Special Alloys (C99000 - C99999)

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

UNS #	Cu		Pb		Sn		Fe		Ni		Al		Co		Mn		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%		
C99300* Incramet 800		Rem ⁽¹⁾		0.02		0.05	0.40	1.0	13.5	16.5	10.7	11.5	1.0	2.0					0.02			active
C99350		Rem ⁽¹⁾		0.15				1.0	14.5 ⁽²⁾	16.0	9.5	10.5				0.25			7.5 Zn	9.5 Zn		active
C99400* Non-Dezincification Alloy		Rem ⁽¹⁾		0.09			1.0	3.0	1.0	3.5	0.50	2.0				0.50	0.50	2.0	0.50 Zn	5.0 Zn		active
C99500* Special Alloys		Rem ⁽¹⁾		0.09			3.0	5.0	3.5	5.50	0.50	2.0				0.50	0.50	2.0	0.50 Zn	2.0 Zn		active
C99600 Incramute 1 Incramute 1		Rem ⁽¹⁾		0.02		0.10			0.20		0.20	1.0	2.8		0.20	39.0	45.0		0.10		0.20 Zn 0.05 C	active
C99650		Rem ⁽³⁾		0.02								0.10				33.0	38.0		0.10		0.30 C	active
C99700 White Manganese Brass	54.0 ⁽¹⁾			2.0		1.0		1.0	4.0	6.0	0.50	3.0				11.0	15.0				19.0 Zn 25.0 Zn	active
C99710* Special Alloys	60.0 ⁽⁴⁾⁽¹⁾			0.09		1.0		1.0	4.0	6.0		1.0				11.0	15.0				19.0 Zn 25.0 Zn	active

UNS #	Cu		Pb		Sn		Fe		Ni		Al		Co		Mn		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%	
C99720 Special Alloy	54.0	59.0 ⁽³⁾		0.05	1.5	2.0	0.6	1.0	5.0	6.0	1.0	1.4			11.0	14.0		0.05	18.0 Zn 2.0 Bi	24.0 Zn 0.05 P 3.0 Bi	active
C99740 Special Alloy	55.0	60.0 ⁽³⁾		0.05	1.5	2.0	0.6	1.0	5.0	6.0	1.0	1.4			11.0	14.0		0.05	17.0 Zn 3.0 Bi	23.0 Zn 0.05 P 4.0 Bi	active
C99750	55.0	61.0 ⁽¹⁾	0.50	2.5				1.0		5.0	0.25	3.0			17.0	23.0			17.0 Zn	23.0 Zn	active
C99760*	61.0	67.0 ⁽⁵⁾		0.09	0.20	1.0		0.6	8.0 ⁽²⁾	12.0		0.6			10.0	16.0		0.05	8.0 Zn 0.10 Sb	14.0 Zn 0.05 P 0.10 C 0.25 S 1.0 Sb	active
C99761* White Alloy	58.0	64.0 ⁽⁵⁾		0.09	0.20	1.5		0.6	8.0	10.0 ⁽²⁾	0.10	2.0			8.0	12.0		0.05	16.0 Zn 0.10 Sb	21.0 Zn 0.05 P 0.10 C 0.25 S 1.0 Sb	active
C99770*	66.0	70.0 ⁽⁵⁾		0.09	0.20	1.0		0.6	3.0	6.0 ⁽²⁾		0.6			10.0	16.0		0.05	8.0 Zn 0.10 Sb	14.0 Zn 0.05 P 0.10 C 0.25 S 1.0 Sb	active
C99771* White Alloy	62.0	70.0 ⁽⁵⁾		0.09	0.20	1.5		0.6	2.0 ⁽²⁾	4.0	0.01	2.0			8.0	12.0		0.05	16.0 Zn 0.10 Sb	21.0 Zn 0.05 P 0.10 C 0.25 S 1.0 Sb	active
C99780* Special Alloy	62.0	66.0 ⁽³⁾		0.05	0.50	2.0		0.50	4.0	6.0	0.30	1.0			12.0	15.0		0.05	16.0 Zn 0.50 Bi	20.0 Zn 0.05 P 2.0 Bi	active

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(1) = Cu + Sum of Named Elements 99.7% min.

(2) = Ni value includes Co.

(3) = Cu + Sum of Named Elements 99.8% min.

(4) = Cu value includes Ag.

(5) = Cu + Sum of Named Elements 99.3% min.