



Application Datasheet

Standard Designation for Wrought Copper Alloys

Revision Date: October 21, 2024

Copper-Nickel-Zinc Alloys (Nickel Silvers) (C73500 - C79999)

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

UNS #	Cu		Pb		Zn		Fe		Ni		Mn		Other Named Elements		Status
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	
C73500* Nickel Silver	70.5	73.5 ⁽¹⁾⁽²⁾		0.09		Rem		0.25	16.5	19.5 ⁽³⁾		0.50			active
C73600 Copper Nickel Zinc Alloy	69.0 ⁽²⁾	73.5		0.10		Rem		0.25							inactive 05/72
C73800* Copper Nickel	68.5 ⁽²⁾	71.6		0.05		Rem		0.25	11.0	13.0		0.50			inactive 03/92
C74000* Copper Nickel Zinc Alloy	69.0 ⁽¹⁾⁽²⁾	73.5		0.05		Rem		0.25	9.0	11.0 ⁽³⁾		0.50			active
C74100 Copper Nickel Zinc Alloy		Rem ⁽²⁾													inactive 11/74
C74300* Nickel Silver	63.0	66.0 ⁽²⁾⁽¹⁾		0.09		Rem		0.25	7.0	9.0 ⁽³⁾		0.50			active
C74400* Nickel Silver	62.0 ⁽²⁾⁽⁴⁾	66.0		0.05		Rem		0.05	2.0	4.0 ⁽³⁾					active
C74500* Nickel Silver, 65-10	63.5 ⁽²⁾⁽¹⁾	66.5		0.09 ⁽⁵⁾		Rem		0.25	9.0	11.0 ⁽³⁾		0.50			active
C75200* Nickel Silver, 65-18	63.0	66.5 ⁽¹⁾⁽²⁾		0.05		Rem		0.25	16.5 ⁽³⁾	19.5		0.50			active
C75400 Nickel Silver, 65-15	63.5 ⁽¹⁾⁽²⁾	66.5		0.10		Rem		0.25	14.0	16.0 ⁽³⁾		0.50			active
C75700* Nickel Silver, 65-12	63.5 ⁽²⁾⁽¹⁾	66.5		0.05		Rem		0.25	11.0	13.0 ⁽³⁾		0.50			active
C75720* Copper Nickel Zinc	60.0 ⁽²⁾	65.0		0.04		Rem		0.25	11.0	13.0	0.05	0.30			inactive 03/92

UNS #	Cu		Pb		Zn		Fe		Ni		Mn		Other Named Elements		Status
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	
C75900 Copper Nickel Zinc	60.0	65.0 ⁽²⁾		0.10		Rem		0.25	17.0	19.0		0.50			inactive 03/92
C76000	60.0	63.0 ⁽¹⁾⁽²⁾		0.10		Rem		0.25	7.0 ⁽³⁾	9.0		0.50			active
C76100 Copper Nickel Zinc	59.0 ⁽²⁾	63.0		0.10		Rem		0.25	7.0	9.0		0.50			inactive 03/92
C76200 Nickel Silver	57.0	61.0 ⁽¹⁾⁽²⁾		0.09		Rem		0.25	11.0	13.5 ⁽³⁾		0.50			active
C76300 Copper Nickel Zinc	60.0	64.0 ⁽²⁾	0.50	2.0		Rem		0.50	17.0	19.0		0.50			inactive 03/92
C76390 Copper Nickel Zinc	59.0	63.0 ⁽²⁾	0.8	1.1		Rem		0.25	23.0	26.0		0.50	0.40 Sn	0.6 Sn	inactive 03/92
C76400* Nickel Silver	58.5 ⁽²⁾⁽¹⁾	61.5		0.05		Rem		0.25	16.5 ⁽³⁾	19.5		0.50			active
C76600 Copper Nickel Zinc	55.0 ⁽²⁾	58.0		0.10		Rem		0.25	11.0	13.5		0.50			inactive 03/92
C76700 Nickel Silver, 56.5-15	55.0 ⁽¹⁾⁽²⁾	58.0				Rem			14.0 ⁽³⁾	16.0		0.50			active
C76800 WNS7	47.5	50.0 ⁽²⁾⁽¹⁾		.09		Rem			8.0 ⁽³⁾	9.5	4.5	6.5			active
C77000 Nickel Silver, 55-18	53.5	56.5 ⁽¹⁾⁽²⁾		0.05		Rem		0.25	16.5	19.5 ⁽³⁾		0.50			active
C77010 Copper Nickel Zinc	54.0 ⁽²⁾	56.0		0.03		Rem			17.0	19.0	0.05	0.35			inactive 03/92
C77100	52.0	56.0 ⁽⁶⁾⁽¹⁾		.03		Rem			9.0 ⁽⁷⁾	12.0		.9			active
C77300	46.0	50.0 ⁽²⁾⁽¹⁾		0.05		Rem			9.0 ⁽³⁾	11.0			0.04 Si	0.01 Al 0.25 Si	active
C77310 Copper Nickel Zinc	46.0	56.0 ⁽²⁾		0.05		Rem			9.0	11.0		0.50	0.04 Si	0.01 Al 0.25 Si	inactive 03/92
C77400	43.0	47.0 ⁽¹⁾⁽²⁾		0.09		Rem			9.0 ⁽³⁾	11.0					active
C77600	42.0 ⁽²⁾⁽¹⁾	45.0		0.25		Rem		0.20	12.0	14.0 ⁽³⁾		0.25		0.15 Sn	active
C78150 Replaced by C78270															inactive 12/07
C78200	63.0 ⁽¹⁾⁽²⁾	67.0	1.5	2.5		Rem		0.35	7.0	9.0 ⁽³⁾		0.50			active
C78270 Nickel Silver Nickel Silver	65.0 ⁽²⁾⁽¹⁾	68.0	1.0	1.8		Rem		0.35	4.5	6.0 ⁽³⁾		0.50			active
C78400 Copper Nickel Zinc Alloy	60.0 ⁽²⁾	63.0	0.8	1.4		Rem		0.25	9.0	11.0		0.50			inactive 05/72
C78600 Copper Nickel Zinc Alloy	60.0	63.0 ⁽²⁾	1.25	1.75		Rem		0.35	8.5	11.0		0.50			inactive 05/72
C78800 Copper Nickel Zinc	63.0	67.0 ⁽²⁾	1.5	2.0		Rem		0.25	9.0	11.0		0.50			inactive 03/92

UNS #	Cu		Pb		Zn		Fe		Ni		Mn		Other Named Elements		Status
	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	Min%	Max%	
C79000	63.0 ⁽¹⁾⁽²⁾	67.0	1.5	2.2		Rem		0.35	11.0 ⁽³⁾	13.0		0.50			active
C79200	59.0 ⁽¹⁾⁽²⁾	66.5	0.8	1.4		Rem		0.25	11.0	13.0 ⁽³⁾		0.50			active
C79300 Copper Nickel Zinc	55.0 ⁽²⁾	59.0	0.50	2.0		Rem		0.50	11.0	13.0		0.50			active
C79350	59.0	63.0 ⁽¹⁾⁽²⁾	0.8	1.1		Rem		0.25	23.0 ⁽³⁾	26.0		0.50		0.6 Sn	active
C79360	55.0 ⁽¹⁾	57.0		0.03		Rem		0.30	24.0	26.0		0.50		0.20 Sn	active
C79400 Copper Nickel Zinc Alloy	59.0	66.5 ⁽²⁾	0.8	1.2		Rem		0.3	16.5	19.5		0.50			inactive 05/72
C79600 Leaded Nickel Silver, 10% Nickel Silver	43.5	46.5 ⁽¹⁾⁽²⁾	0.8	1.2		Rem			9.0	11.0 ⁽⁷⁾	1.5	2.5			active
C79620 Copper Nickel Zinc	46.0	48.0 ⁽²⁾	0.50	2.0		Rem			8.0	11.0		0.50			inactive 03/92
C79800	45.5	48.5 ⁽²⁾⁽¹⁾	1.5	2.5		Rem		0.25	9.0 ⁽³⁾	11.0	1.5	2.5			active
C79810 Copper Nickel Zinc	46.0	48.0 ⁽²⁾	2.0	3.5		Rem			8.0	11.0		0.50			inactive 03/92
C79820 Copper Nickel Zinc	46.0	48.0 ⁽²⁾	2.0	3.5		Rem			8.0	11.0		0.50			inactive 02/81
C79830	45.5 ⁽²⁾⁽¹⁾	47.0	1.0	2.5		Rem		0.45	9.0 ⁽³⁾	10.5	0.15	0.55			active
C79860	42.3	43.7 ⁽⁸⁾⁽²⁾	1.3	1.8		Rem		0.20	11.8 ⁽³⁾	12.7	5.6	6.4		0.10 Sn 0.06 Si	active
C79900 Copper Nickel Zinc	47.5	50.5 ⁽²⁾⁽¹⁾	1.0	1.5		Rem		0.3	6.5	8.5 ⁽³⁾		0.50			inactive 03/92

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

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

(2) = Cu value includes Ag.

(3) = Ni value includes Co.

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

(5) = 0.05% Pb, max. for rod, wire, and tube.

(6) = Includes Ag.

(7) = Includes Co.

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