



LITTLE FALLS ALLOYS, INC.
171-191 CALDWELL AVENUE
PATERSON, NJ 07051

TECHNICAL DATA AT A GLANCE

The information provided here is for reference only

Phone: 973-278-1666 or 1-888-532-9473

Fax: 973-278-7345

WWW.LITTLEFALLSALLOYS.COM

Unified Number	BERYLLIUM COPPER		BERYLLIUM COPPER	
	C17200	C17300	C17500	C17510
Alloy name and Nominal composition	#25 Alloy	M - 25 Alloy	10 Alloy	3 Alloy
	Cu Bal	Cu Bal	Cu Bal	Cu Bal
	Be 1.8-2.0	Be 1.8-2.0	Co 2.55	Ni 1.40 / 2.20
	Co+Ni 0.20 Min	Co+Ni 0.20 Min	Be 0.40 / 0.70	Co 0.30 Max
	Co+Ni+Fe 0.60 Max	Co+Ni+Fe 0.60 Max	Fe 0.10 Max	Be 0.20 / 0.60
	Si 0.20 Max	Si 0.20 Max	Cu+Co+Be 99.50 min	Fe 0.10 max
	Al 0.20 Max	Al 0.20 Max	Si 0.20 max	Si 0.20 max
		Ph 0.20-0.60	Al 0.20 max	Al 0.20 max

BERYLLIUM COPPER	
C17410	
C17410	
Cu Bal.	
Be 0.15/0.50	
Co 0.35/0.60	
Al 0.20 max	
Fe 0.20 max	
Si 0.20 max	

Round and Square wire Before Heat Treatment			Round and Square wire after heat treatment 600 F			For round, square and flat wire			
Standard	Temper Designation	Tensile (KSI)	Time	Std	Tensile KSI	Standard	Temper Designation	Tensile KSI	Cond. (%)
TB00	Solution anneald	58-78	3 HRS	TF00	160-200	TBOO	Annealed (A)	35-55	25-30
—	1/8 Hard	75-95	—	—	—	TD 02	Half Hard (1 / 2 H)	70-85	22-27
TD01	1/4 Hard	90-115	2 HRS	TH01	175-210	TF 00	Annealed heat treated (AT)	100-120	48-55
TD02	1/2 Hard	110-135	1.5 HRS	TH02	185-215	TH02	Half heat treated (1/2 HT)	110-130	48-52
TD03	3/4 Hard	130-155	—	—	—		HTC	55-70	50-60
TD04	Hard	140-165	1 HR	TH04	190-215		HTD	110-130	48-55
—	5 Nos Hard	150-175							
—	Extra Hard	155-180							

Precipitation heat treated			
Standard	Temper Designation	Tensile KSI	Cond. (%)
TH 02	1/2 HT	95-115	45 min
TH04	HT	110-130	45 min

Flat wire other than square						
Before heat treatment			After heat treatment 600 F			
Std	Temper Designation	Tensile KSI	Time	Std	Temper	Tensile KSI
TB00	A	60-78	3 HRS	TF00	AT	165-190
TD01	1/4 H	75-88	2 HRS	TH01	1/4 HT	175-200
TD02	1/2 H	85-100	1.5 HRS	TH02	1/2 HT	185-210
TD04	Hard (H)	100-120	1 HR	TH04	HT	190-215

Silvercote® Tempered (Mill hardened)	
Size Diameter	Tensile KSI
.001" to .010" (Incl)	185-235
.010" to .0254" (Incl)	180-210
.0254" to .057" (Incl)	160-200
.057" to .080"	140-165

Forms and material available	Footage table for Beryllium Copper # 25 Alloy					
	Avg.	Size	Rd Wire Ft/Lb	Avg.	Size	Rd Wire Ft/Lb
Round Wire: Square Wire: Flat Wire	8	.1285	21.6	26	.0159	1415
BERYLLIUM COPPER SILVERCOTE®	9	.1144	27.2	27	.0142	1775
BRASS	10	.1019	34.4	28	.0126	2253
PHOSPHOR BRONZE	11	.0909	43.5	29	.0113	2803
COPPERS	12	.0808	54.8	30	.010	3579
COPPER CHROMIUM CADMIUM	13	.0719	69.2	31	.0089	4519
ZIRCONIUM COPPER	14	.0641	87.1	32	.008	5593
ZIRCONIUM CHROMIUM COPPER	15	.0571	112	33	.0071	7102
NICKEL	16	.0508	139	34	.0063	9017
NICKEL SILVER	17	.0453	174	35	.0056	11400
CUPRO NICKEL	18	.0403	220	36	.005	14310
COPPER NICKEL TIN	19	.0359	278	37	.0045	17650
K-88 ALLOY	20	.0319	352	38	.004	22360
	21	.0285	441	39	.0035	23090
	22	.0251	555	40	.0031	37270
	23	.0226	701	41	.0028	45870
	24	.0201	886	42	.0025	56820
	25	.0179	1117	43	.0022	74570



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Unified Number	C51000	C52100	N02205	C74500	C76400	C71000	C72500	C22000	C23000	C26000	C10200	C10700	C11000	C15000/ Zx Copper	C18150	C18080
Alloy name	Grade A Ph Brnz.	Grade C Ph Brnz.	Grade A Nickel	10 % Ni Silver	18 % Ni Silver	80-20 CuproNi	Cooper Ni-Sn	90/10 Brass	85/15 Brass	70/30 Brass	OFHC Copper	Copper Silver	ETP Copper	C15100	Zr Cr Cu	K-88 Alloy
Nominal Composition (%)	Cu+Sn+P 99.50 Min.	Cu+Sn+P 99.20 Min.	Ni+Co99 min Mn .35 max	Cu 65.0 Zn 25.0	Cu 60.0 Pb.05max	Cu 74.0 Pb.05max	Cu 88.2 Ni 9.50	Cu 90 Zn 10.00	Cu 85 Zn 15.0	Cu 70.0 Zn 30.00	Cu 99.50 Min.	Cu 99.91min	Cu 99.90min	Cu + Ag 99.8 min	Zr .05-.25	Cr .20-.70 Ag .01/.30
	Sn 5.0	Sn 8.0	Fe .20 max	Ni 10.0	Fe.25max	Fe1.0max	Sn 2.30	Fe .05max	Fe .05	Fe .06max		Ag	O .04min	Zr	Cr .50-1.50	Ti .01/.20
	Fe .10 max	Fe .10 max	Cu .15 max	Mn.50max	Zn 22.0	Zn1.0max	Fe .60max	Pb .05max	Pb .05	Pb .07max	—	.085 min		0.05/0.20		Si .01/.10
	Pb .05 max	Pb .05 max	C .15	Fe.25max	Ni 18	Ni+Co 21	Zn .50max	—	—	—	—	—	—	—	Cu Bal.	Cu Bal.
	Zn .30 max	Zn .20 max	Si .15 max	Pb.05max	Mn.50max	Mn 1.0	Pb .05max	—	—	—	—	—	—	—	—	—
			Mg .04	Other .50 max	Other .50 max	—	—	—	—	—	—	—	—	—	—	—
			Ti .03 S .008 max	—	—	—	—	—	—	—	—	—	—	—	—	—
Round and Square wire																
Annealed	Tensile	43-58	53-68	55-85	—	60	48	60		41-48	48-54	35	35	—	35	Aged matl.
1/4 Hard	Tensile	60-76	74-91	70-95	73-88	74-93	55-72	80	45-57	59	62-77	—	—	—	—	drawn
1/2 Hard	Tensile	80-97	95-115	90-110	88-103	92-110	67-83	90	56-67	72	79-94	53-60	—	—	62	TL01 to
3/4 Hard	Tensile	96-115	113-135	105-140	108-123	—	—	—	64-74	—	92-107	—	—	—	—	TL08
Hard	Tensile	108-128	125-150	105-140	—	112-128	77-92	100	70-79	88	102-117	67	55	55	68	Tensile
Spring	Tensile	—	140 min	125-145				110	84-100	105	120 min		66	66	72	90,000-
	under.025	145 min			130 min	130 min	90 min									110,000
	.025-.0625	135 min			125 min	125 min	88 min									Cond. 75%
	.0625-.125	130 min					100-115									Min.
Rolled flat and rectangular wire other than square																
Annealed	Tensile	43-58	53-67	55-75	56	60	47-63	55	—	39-45	44-53	40 max	32-40	34	—	TENSILE (KSI)
1/4 Hard	Tensile	—	—	—	56-73	69-87	—	55-75	40-50	50	49-59	—	—	38	—	SIZE (INCH)
1/2 Hard	Tensile	58-73	69-84	—	67-82	78-95	56-70	65-80	47-57	57	57-67	—	37-46	42	45	
3/4 Hard	Tensile	—	—	—	—	—	—	77	52-62	—	64-74	—	—	—	51	
Hard	Tensile	76-91	85-100	—	80-94	92-109	67-79	75-90	57-66	70	71-81	43 min	43-52	50	54	CHEMICAL COMP. (%)
Spring	Tensile	95-110	105-119	90-130	95-108	108-123	76-87	85-100	69-77	84	91-100	—	50-58	55	—	
Extra Spg.	Tensile	100-114	116-122	—	—	—	—	100-125	72-80	—	95-104	—	52 min	57	60	

Little Falls Alloys is a specialty, nonferrous wire mill. We fill the gap between a warehouse and the large, commercial mills with no restrictions on quality, standard tolerance or special size.

Little Falls Alloys produces wire in all forms: round, square, flat and shaped; in coils, on spools and in straight lengths. We draw to your custom specifications (alloy, size, tolerance and temper)

Our staff is not only willing, but highly capable of helping you solve your design and production problems.