

Nail City Bronze, Inc

Brass & Bronze Alloys

Designation				Nominal Compositions										Mechanical Properties							
Family	CDA	ASTM	SAE	SAE	CU%	SN%	PB%	ZN%	BI%	FE%	AL%	MN	NI	Tensile Strength		Yield Strength		Elongation		Brinell Hardness	Typical Uses
				Supers- eded										Min ()	Typ ()	Min ()	Typ ()	Min ()	Typ ()	10mm-500kg	
Manganese Bronze	C86200	B584-862	C86200	430A	64			26		3	4	3		90	95	45	48	18	20	180	Bracket, shafts, gears, structural parts
	C86300	B584-863	C86300	430B	63	8		25		3	6	3		110	115	60	65	12	15	225	Screw down nuts, slow-speed heavy load bearings, gears, gibs, cams
	C86500	B584-865	C86500	43	58	10	2	40		1	1			65	71	25	28	20	30	130	Strength appts, propellers for salt & fresh water, machinery parts substituting for steel & malleable iron
Tin Bronze	C90500	B584-905	C90500		62	88	10		2					40	45	18	22	20	25	75	Bearings, bushings, pump impellers, piston rings, pump bodies, valves, steam fittings, gears
	C91700	B427-917	C91700		86	12						1.5		35	44	17	22	10	16	80	Worm wheels, gears, bearings for heavy loads, relatively low speeds
Lead Free Bronze	C89835 Equal to C93200			660	87	6		3	2					30	35	14	18	15	20	65	General purpose bushings, washers, non-pressure applications
	C89325 Equal to C93700			64	87	10			3					30	35	12	18	15	20	73	High speed, heavy pressure bushings, acid resistant to sulfite fluids
	C89833 Equal to C83600			40	89	5		3	2					30	37	14	17	20	28	60	General miscellaneous, low-pressure valve & fittings, pumps
Aluminum Bronze	C95200	B148-952	C95200	68A	88					3	9			65	80	25	27	20	35	125	Gun mounting & slides, landing gear parts, pickling tank, mild alkaline applications
	C95300	B148-953	C95300	68B	89					1	10			65	75	25	27	20	25	140	Gears, cams, stripper nuts, slippers, high-temp applications, mining machine parts
	C95400	B148-954	C95400		85					4	11			75	85	30	35	12	18	170	Spur & low-speed heavily loaded worm gears, nuts, pump & landing gear parts, wear plates
	C95500	B148-955	C95500		81					4	11		4	90	100	40	44	6	12	195	Used under extreme conditions such as tank gun, recoil mechanisms, landing gear parts



Our Services

Nail City Bronze, Inc was established in 1877 and has been serving multiple industries nationwide. With over 100 years of knowledge and experience, our employee's commit to producing the highest quality parts.

Our casting capabilities are up to 2,000 lbs. All casting materials are lead free, and we also can melt and reuse certain brass and bronzes.

Nail City Bronze maintains a complete in-house wood shop where we create patterns, and store over 10,000 on-hand.

We can also finish parts, machined complete, per drawings and customer specifications, including brass, bronze, steel, stainless, and cast iron.

We are a full-service facility able to accommodate every brass and bronze need.



Contact Us

2700 Wood Street, Wheeling, WV 26003

Phone: 304-232-4423

Fax: 304-232-2537

Email: sales@nailcitybronze.com

Emergency Services: 304-233-3369

