

ALLOY SELECTION CHART

- Cast Bronze Alloys



Alloy Type	Speeds	Cross Index			Chemical Composition					Minimum Requirements				Machinability		
		CDA	SAE	AMS	Cu	Sn	Pb	Zn	Ni	Tensile (PSI)	Yield (PSI)	% Elongation	BHN @ 500 kg			
Leaded Tin Bronze	Medium Loads - Medium Speeds	C83600	40	4855	85	5	5	5		36000	19000	15	60	84		
		C84400			81	3	7	9		30000	15000	16	55	90		
		C93200	660		83	7	7	3		35000	20000	10	65	70		
		C93400			84	8	8			34000	20000	8	60	70		
		C93500	66		85	5	9	2		30000	16000	12	60	70		
		C93600			80	7	12	1		33000	20000	10	60	80		
		C93700	64	4842	80	10	10			35000	20000	6	80	80		
		Tin Bronze	High Loads - Low Speeds	C90300	620		88	8		4		44000	22000	18	70	30
				C90500	62	4845	88	10		2		44000	25000	10	75	30
C90700	65				89	11				40000	25000	10	80	20		
C92200	622				88	6	1.5	4.5		38000	19000	18	65	42		
C92300	621				87	8	1	4		40000	19000	16	70	42		
C92500	640				87	11	1	0.5	1	40000	24000	10	80	30		
C92700	63				88	10	2			38000	20000	8	77	45		
Manganese Bronze	Extreme Loads - Low Speeds			C86200	430A	4862B	64	26	4	3	3	90000	45000	18	180	30
				C86300	430B		63	25	6	3	3	110000	62000	14	225	8
		C86500	43	4860A	58	40	1	1	1	70000	25000	25	130	26		
		Aluminum Bronze	Extreme Loads - Low Speeds (Corrosive Environments)	C95200	68A		86	9	3			68000	26000	20	125	20
				C95300	68B		86	10	1			70000	26000	25	140	55
C95300-HT										80000	40000	12	174	50		
C95400				4870	83	11	4			85000	32000	12	170	60		
C95400-HT										95000	45000	10	195	50		
C95500					78	11	4	4	3.5	95000	42000	10	195	50		
C95500-HT										110000	62000	8	230	40		
C95900					82	13	4		1	80000	40000	1	255			
C95510				4880	78	10	3	5	1.5	105000	62500	9	225	50		
C63000		4640	78	10	3	5	1.5	90000	45000	6	225	30				



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