

Alloy Reference Chart

FAMILY	CDA	ASTM			ASARCON	SAE			AMS	FEDERAL	INGOT	OTHER DESIGNATION	FEDERAL	MILITARY		
		B62	B145-4A	55		40	J461	J462						4855	QQC390 B5	115
LEADED RED BRASS	C83600	B505	B62	B145-4A	55	40	J461	J462	4855	QQC390 B5	115	COMERCAIL RED BRASS	QQ-B-1005, COMP, 17	MIL-B-11553, COMP 3		
	C83800	B505		B145-4B	46				4855B	QQC390 B4	120		QQ-B-1005, COMP, 3			
	C84200	B505								QQC390 B1	101					
LEADED SEMI RED BRASS	C84400	B505		B145-5A	37					QQC390 B2	123	78 METAL 76-3-6-15	QQ-B-1005 COMP 11	MIL-B11553 COMP11		
	C84500										125					
	C84800	B505									130					
LEADED YELLOW BRASS	C85200	B505								QQC390 A4	400	COMMERCIAL YELLOW BRASS 60-40 YELLOW BRASS 405.2 YELLOW BRASS	QQ-B-621 CLASS C			
	C85300										407					
	C85400						41	J461	J462		QQC390 A3		403	QQ-B-621 CLASS B		
	C85500										QQC390 A5				MIL-B-17512	MIL-C-15345 ALLOY 2
	C85700										QQC390 A1		405.2	QQB 621 CLASS A		MIL-C-15345 ALLOY 3
MANGANESE BRONZE	C86200	B505				430A	J461	J462		QQC390 C4	423	HIGH STRENGTH YELLOW BRASS 90000	QQ-B-726, CLASS B		MIL-C-22229 COMP 9	
	C86300	B505				430B	J461	J462		QQC390 C7	424	HIGH STRENGTH YELLOW BRASS 110,000			MIL-C-22229 COMP 8	
	C86400	B505								QQC390 C2	420	LEADED HIGH STRENGTH YELLOW BRASS 60000	QQ-B-726, CLASS D			
	C86500	B505				43	J461	J462	4860	QQC390 C3	421	HIGH STRENGTH YELLOW BRASS 65,000	QQ-B-726 CLASS A		MIL-C-22229 COMP 7	
	C86700										422	HIGH STRENGTH YELLOW BRASS 80,000				
ECO-BRASS	C87850										ECO-BRASS					
COPPER BISMUTH	C89325											Federalloy III 937				
	C89831											Federalloy I 844				
	C89833											Federalloy I 836				
	C89835											Federalloy III 932				
	C89837											Federalloy I				
COPPER/BIS SELENIUM	C89510															
	C89520															
TIN BRONZE	C90300	B505		B143-1B	80	620	J461	J462		QQC390 D5	225	" G " BRONZE	QQ-B-1005, COMP.3	MIL B-11553, COMP. 5		
	C90500	B505	B22	B143-A	100	62	J461	J462	4845	QQC390 D6	210	" GUN METAL"	QQ-B-1005, COMP. 16	MIL-B-11553, COMP. 16		
	C90700	B505			110	65	J461	J462			205	TIN BRONZE 89-11				
	C91000	B505								QQC390 D2	197		QQ-B-1005, COMP. 9	MIL-B-16262, GRADE III		
	C91300	B505		B22-A	190				7322A	QQC390 D1	194	TIN BRONZE 81-19				
	C91600									QQC390 F1	205	NICKEL GEAR BRONZE				

MECHANICAL PROPERTIES ARE CONTINUOUS CAST UNLESS OTHERWISE NOTED

^ BRINELL HARDNESS 3000 KG LOAD

* SAND CAST MECHANICAL PROPERTIES

** ROCKWELL B HARDNESS

FAMILY	CDA	ASTM		ASARCON	SAE		AMS	FEDERAL	INGOT	OTHER DESIGNATION	FEDERAL	MILITARY			
LEADED TIN BRONZE	C92200	B505	B61	B143-2A	61	622	J461	J462	7320A	QQC390 D4	245	NAVY 'M' STEAM BRONZE	QQ-B-1005, COMP. 1	MIL-B-11553, COMP. 1	MI-B16541
	C92300	B505		B143-2B	81	621	J461	J462		QQC390 D3	230	LEADED "G" BRONZE	QQ-B1005, COMP. 6	MIL-B-11553, COMP. 6	
	C92500	B505					J461	J462			250				
	C92600				111N	640					215	COMERCIAL 88-10-0-2			
	C92700	B505			102	63	J461	J462			206				
	C92800	B505									295	RING METAL			
	C92900	B505		B427 D	102N						206				
HIGH LEADED TIN BRONZE	C93200	B505		B144-3B	77	660	J461	J462		QQC390 E7	315	BEARING BRONZE	QQ-B-1005, COMP. 12	MIL-B-11553, COMP. 12	
	C93400	B505			88					QQC390 E8	311		QQ-B-1005 COMP. 8	MIL-B-11553, COMP. 8	
	C93500	B505		B144-3C	59	66	J461	J462		QQC390 E9	326	QQ-B-1005, COMP. 14	QQ-B-1005, COMP. 14	MIL-B-11553, COMP. 14	
	C93600	B505													
	C93700	B505	B22-C	B144-3A	1010	64	J461	J462		QQC390 E10	305			MIL-B-11553, COMP. 23	
	C93800	B505	B66	B144-3D	715					QQC390 E6	319	ANTI ACID METAL	QQ-B-1005, COMP. 19	MIL-B-11553, COMP. 19	
	C93900	B505			616	67	J461	J462		QQC390 E4					
	C94000	B505								QQC390 E2			QQ-B-1005, COMP. 13	MIL-B-11553, COMP. 13	
	C94100	B505			520					QQC390 E5				MIL-B-16261, GRADE X	
	C94300	B505								QQC390 E1	322		QQ-B-1005, COMP. 18	MIL-B-16261 GRADE V	
NICKEL TIN BRONZES	C94700	B505	947	B292-A	50N					QQC390 F2					
	C94700HT														
	C94800	B505	948	B292-B	51N					QQC390 F3					
ALUMINUM BRONZE	C95200	B505				68A	J461	J462		QQC390 G6	415	ALUMINUM BRONZE 9A	QQ-B-671, CLASS 1	MIL-B-16033, CLASS 1	
	C95300	B505				68B	J461	J462		QQC390 G7	415	ALUMINIUM BRONZE 9B	QQ-B-671, CLASS 2	MIL-B-16033, CLASS 2	
	C95300HT														
	C95400	B505								QQC390 G5	415	ALUMINUM BRONZE 9C AMPCO 18	QQ-B-671, CLASS 3	MIL-B-16033, CLASS 3	
	C95400HT	B505													
	C95410	B505													
	C95410HT										415				
	C95500	B505								QQC390 G3		ALUMINUM BRONZE 9 D		MIL-B-16033, CLASS 4	
	C95520	B505													
	C95520HT														
	C95520HT														
	C95600														
	C95700	B505										MAGANESE ALUMINUM BRONZE			
	C95800	B505								QQC390 G8	415	ALPHA NICKEL ALUMINUM BRONZE			
C95800 ^o															
C95900	B505										AMPCO 21				
NICKEL SILVER	C96400	B505								QQC390 X9		70-30 COPPER NICKEL			
	C96900	B505													
	C97300	B505									412	15 %NICKEL SILVER			
	C97600	B505									412	20 % NICKEL SILVER DAIRY METAL			
	C97800	B505										25 % NICKEL SILVER			