

Aluminum alloys

Alloy (CDA No.)	Chemical composition												
	Cu %	Al %	Zn %	Pb %	Ni %	Fe %	Si %	Be %	Co %	Mn %	P %	Cr %	Total others
Aluminum bronze c(954)	83.0 ^a	10.0-11.5	0.4-0.60	0.20	2.5	3.0-5.0	0.1	-	-	0.5	-	-	0.5
Aluminum bronze D(955)	78.0 ^a	10.0-11.5	-	-	3.0-5.5	3.0-5.0	-	-	-	3.5	-	-	0.50
BeCu10C(820)	Bal.	0.10	0.01	0.01	0.20	0.10	0.15	0.45-0.8	2.4-2.7 ^a	-	-	0.01	-
BeCu20C(825)	Bal.	0.15	0.10	0.02	0.20	0.25	0.20-0.35	1.9-2.2	0.35-0.7 ^a	-	-	0.10	-
Cr Copper	Bal.	-	-	0.015	-	0.05	-	-	-	-	-	0.4-1.0	0.1

Alloy-(CDA No.)	condition	mechanical properties					
		Tensile strength		0.2% yield strength		%Elongation range	Hardness (Rb)
		English(psia)	Metric (Mpa)	English (psia)	Metric (Mpa)		
Aluminum bronze c(954)	A.C	75-85000	517-586	30-40000	207-276	10-20	80-85
		90-105000	621-724	45-55000	310-379		
Aluminum bronze D(955)	A.C	90-100000	621-690	40-50000	276-347	6-10	91-96
		110-120000	758-827	60-70000	414-552		
BeCu10C(820)	A.C	45-50000	310-347	20-25000	138-172	15-20	50-55
		90-100000	621-690	50-60000	347-414		
BeCu20C(825)	A.C	70-80000	483-552	40-45000	276-310	18-23	75-80
		110-160000	758-1103	90-130000	621-896		
Cr Copper		33-50000	228-347	20-40000	138-276	20-30	70-78