

www.govindmetal.com
www.bronzealloysindia.com



GOVIND METAL CO.

SPECIALIST: COPPER ALLOYS



Quality **Sourcing** With Competitive Edge...

About Us

Govind Metal Co. is a leading and the most trusted name in the production and supply of Copper alloys for more than 25 years.

With strong foundation and vast experience in non-ferrous metals and copper alloys, the organization has excelled in offering a wide range of Copper based alloys under stringent quality standards as per the customer's requirement.

We cater to customers from all major verticals like Earthmoving & Construction, Shipbuilding, Defense, Navy, Auto, Steel Plants, Electrical, Pump and Valve, Marine & Aerospace, Food processing. The company not only caters to the domestic requirements but has opened its' wings across the globe.

Quality, scale, time bound supply along with competitive prices differentiate us as a key player.

Products

Offering a wide selection of products and sophisticated production capabilities, we are prepared to meet the growing needs of various industries.

Ingots - We produce Copper Based Alloys Ingots in all types of Bronze and High Tensile Brass as per various international standards confirming to IS, BS, JIS, DIN, ASTM, UNI and any other specifications as per customer requirement.

Our product range includes -

- Gunmetal - Leaded Red & Semi Red Brasses
- Aluminum Bronze
- Nickel Aluminum Bronze
- Manganese Bronze
- Tin Bronzes
- Phosphorous bronze
- Silicon Bronze
- Leaded Tin Bronze

Nickel Aluminum Bronze bars and fasteners- We also produce and supply Nickel Aluminum Bronze fasteners and bars in round, flat and hex shapes as per various international specifications.

The major specifications are as listed below

- Aluminium Bronze Round bars as per BS 1400 AB2
- Nickel Aluminium Bronze as per BS 2874 CA 104
- Nickel Aluminium Bronze NES 833 Part II
- Aluminium Bronze as per ASTM C63200
- Aluminium Bronze as per ASTM C 63000/CDA 630
- Aluminium Bronze as per ASTM C 62400
- Nickel Aluminium Bronze as per ASTM C95500, C95800, and any other specifications.



Raw Material and Scrap Division :

We also deal in various non-ferrous scraps especially in copper-based alloys. To ensure high-quality material, we use world-class metal analyzerequipment for testing.

We specialize in :

- Aluminum Bronze
- Gunmetal
- High Tensile Brass
- Tin Bronze
- Brass and Bronze
- Copper
- Specific Alloys as per customer's need

Our Infrastructure

The company's current production capacity of approximately 2500 metric tons per annum can be scaled up as per the requirement. With the support of experienced metallurgists and best-melting practices, we ensure to produce high-quality alloys from our facility.

Our facility -

- Two furnaces with a capacity of 1 Metric Ton each
- Specially designated furnaces for zinc and lead free alloys
- Crucible Type Furnaces
- Induction Furnace



Material Testing Facility includes-

- 1 Bruker S1 sorter XRF analyzer
- 1 Niton XRF analyzer
- Optical Emission Spectrometer GNR(Italy)



Quality Assurance

An ISO 9001:2008 certified, Govind Metal Co emphasizes on involvement of Quality Assurance at every stage as an integrated approach to assure quality. As per the customer's need, we can also get our products certified from any international third-party inspection agencies like TUV, BUREAU VERITAS, etc.

For any other specification and queries, please email us - : govindmetal@yahoo.com

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Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
Aluminium Bronze													
C60800	Rem.		0.1		0.1			5-6.5					
C61000	Rem.		0.02	0.2	0.5			6-8.5		0.1			
C61300	Rem.	0.2-0.5	0.01	0.1	2-3	0.15	0.015	6-7.5	0.2	0.1			
C61400	Rem.		0.01	0.2	1.5-3.5		0.015	6-8	1				
C61500	Rem.		0.015			1.8-2.2		7.7-8.3					
C61550	Rem.	0.05	0.05		0.2	1.5-2.5		5.5-6.5	1				
C61800	Rem.		0.02	0.02	0.5-1.5			8.5-11		0.1			
C61900	Rem.	0.6	0.02	0.8	3-4.5			8.5-10					
C62200	Rem.		0.02	0.02	3-4.2			11-12		0.1			
C62300	Rem.	0.6			2-4	1		8.5-10	0.5	0.25			
C62400	Rem.	0.2			2-4.5			10-11.5	0.3	0.25			
C62500	Rem.				3.5-5.5			12.5-13.5	2				
C62580	Rem.		0.02	0.02	3-5			12-13		0.04			
C62581	Rem.		0.02	0.02	3-5			13-14		0.04			
C62582	Rem.		0.02	0.2	3-5			14-15		0.04			
C63000	Rem.	0.2		0.3	2-4	4-5.5		9-11	1.5	0.25			
C63010	78 Min	0.2		0.3	2-3.5	4.5-5.5		9.7-10.9	1.5				
C63020	74.5 Min	0.25	0.03	0.3	4-5.5	4.2-6		10-11	1.5				
C63200	Rem.		0.02		3.5-4.3	4-4.8		8.7-9.5	1.2-2	0.1			
C63280	Rem.		0.02		3-5	4-5.5		8.5-9.5	0.6-3.5				
C63380	Rem.		0.02	0.15	2-4	1.5-3		7-8.5	11-14	0.1			
C95200	86 Min				2.5-4			8.5-9.5					
C95210	86 Min	0.1	0.05	0.5	2.5-4	1		8.5-9.5	1	0.25			
C95220	Rem.				2.5-4	2.5		9.5-10.5	0.5				
C95300	86 Min				0.8-1.5			9-11					
C95400	83 Min				3-5	1.5		10-11.5	0.5				
C95410	83 Min				3-5	1.5-2.5		10-11.5	0.5				
C95420	83.5 Min				2-4.5	0.5		10.5-12	0.5				
C95500	78 Min				3-5	3-5.5		10-11.5	3.5				
C95510	78 Min	0.2		0.3	2-3.5	4.5-5.5		9.7-10.9	1.5				
C95520	74.5 Min	0.25	0.03	0.3	4-5.5	4.2-6		10.5-11.5	1.5	0.15			
C95700	71 Min				2-4	1.5-3		7-8.5	11-14	0.1			
C95710	71 Min	1	0.05	0.5	2-4	1.5-3		7-8.5	11-14	0.15			
C95720	73 Min	0.1	0.03	0.1	1.5-3.5	3-6		6-8	12-15	0.1			
C95800	78 Min		0.03		3.5-4.5	4-5		8.5-9.5	0.8-1.5	0.1			
C95810	79 Min		0.1	0.5	3.5-4.5	4-5		8.5-9.5	0.8-1.5	0.1			
C95820	77.5 Min	0.2	0.02	0.2	4-5	4.5-5.8		9-10	1.5	0.1			
C95900	Rem.				3-5	0.5		12-13.5	1.5				
Tin Bronze													
C89320	87-91	5-7	0.09	1	0.2	1	0.3	0.005		0.005	0.35	0.08	4-6
C40820	94 Min	1-2.5	0.02	0.2-2.5		0.1-0.5	0.05						
C50100	Rem.	0.5-0.8	0.05		0.05		0.01-0.05						

USA - ASTM

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
Tin Bronze													
C50200	Rem.	1-1.5	0.05		0.1		0.04						
C50500	Rem.	1-1.7	0.05	0.3	0.1		0.03-0.35						
C50510	Rem.	1-1.5		0.1-0.25		0.15-0.4	0.02-0.07						
C50580	Rem.	1-1.7	0.05	0.3	0.05-0.2	0.05-0.2	0.01-0.35						
C50590	Rem.	0.5-1.5	0.02	0.5	0.05-0.4		0.02-0.15						
C50700	Rem.	1.5-2	0.05		0.1		0.3						
C50705	Rem.	1.5-2	0.02	0.5	0.1-0.4		0.04-0.15						
C50710	Rem.	1.7-2.3				0.1-0.4	0.15						
C50715	Rem.	1.7-2.3	0.02		0.05-0.15		0.025-0.04						
C50725	Rem.	1.5-2.5	0.02	1.5-3	0.05-0.2		0.02-0.06						
C50780	Rem.	1.7-2.3	0.05	0.3	0.05-0.2	0.05-0.2	0.01-0.35						
C50900	Rem.	2.5-3.8	0.05	0.3	0.1		0.03-0.3						
C51000	Rem.	4.2-5.8	0.05	0.3	0.1		0.03-0.35						
C51080	Rem.	4.8-5.8	0.05	0.3	0.05-0.2	0.05-0.2	0.01-0.35						
C51100	Rem.	3.5-4.9	0.05	0.3	0.1		0.03-0.35						
C51180	Rem.	3.5-4.9	0.05	0.3	0.05-0.2	0.05-0.2	0.01-0.35						
C51190	Rem.	3-6.5	0.02		0.05-0.15		0.025-0.045						
C51800	Rem.	4-6	0.02				0.10-0.35	0.01					
C51900	Rem.	5-7	0.05	0.3	0.1		0.3-0.35						
C51980	Rem.	5.5-7	0.05	0.3	0.05-0.2	0.05-0.2	0.01-0.35						
C52100	Rem.	7-9	0.05	0.2	0.1		0.03-0.35						
C52180	Rem.	7-9	0.05	0.3	0.05-0.2	0.05-0.2	0.01-0.35						
C52400	Rem.	9-11	0.05	0.2	0.1		0.03-0.35						
C52480	Rem.	9-11	0.05	0.3	0.05-0.2	0.05-0.2	0.1-0.35						
C53400	Rem.	3.5-5.8	0.8-1.2	0.3	0.1		0.03-0.35						
C53800	Rem.	13.1-13.9	0.4-0.6	0.1	0.03	0.03			0.06				
C89325	84-88	9-11	0.1	1	0.15	1	0.1	0.005		0.005	0.5	0.08	2.7-3.7
C89510	86-88	4-6	0.25	4-6	0.2	1	0.05	0.005		0.005	0.25	0.08	0.5-1.5
C89520	85-87	5-6	0.25	4-6	0.2	1	0.05	0.005		0.005	0.25	0.08	1.6-2.2
C89530	84-89	3.5-6	0.2	7-9	0.3	1	0.05	0.01		0.01	0.2		1-2
C89831	87-91	2.7-3.7	0.1	2-4	0.3	1	0.05	0.005		0.005	0.25	0.08	2.7-3.7
C89833	87-91	4-6	0.1	2-4	0.3	1	0.05	0.005		0.005	0.25	0.08	1.7-2.7
C89835	85-89	6-7.5	0.1	2-4	0.2	1	0.1	0.005		0.005	0.35	0.08	1.7-2.7
C89836	87-91	4-7	0.25	2-4	0.35	0.9	0.06	0.005		0.005	0.25	0.08	1.5-3.5
C89837	84-88	3-4	0.1	6-10	0.3	1	0.05	0.005		0.005	0.25	0.08	0.7-1.2
C89844	83-86	3-5	0.2	7-10	0.3	1	0.05	0.005		0.005	0.25	0.08	2-4
C89940	64-68	3-5	0.01	3-5	0.7-2	20-23	0.1-0.15	0.005		0.15	0.2	0.05	4-5.5
C90300	86-89	7.5-9	0.3	3-5	0.2	1	0.05	0.005		0.005	0.2	0.05	
C90200	91-94	6-8	0.3	0.5	0.2	0.5	0.05	0.005		0.005	0.2	0.05	
C90500	86-89	9-11	0.3	1-3	0.2	1	0.05	0.005		0.005	0.2	0.05	
C90700	88-90	10-12	0.5	0.5	0.15	0.5	0.3	0.005		0.005	0.2	0.05	
C90710	Rem.	10-12	0.25	0.05	0.1	0.1	0.05-1.2	0.005		0.005	0.2	0.05	

USA - ASTM

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
Tin Bronze													
C90800	85-89	11-13	0.25	0.25	0.15	0.5	0.3	0.005		0.005	0.2	0.05	
C90810	Rem.	11-13	0.25	0.3	0.15	0.5	0.15-0.8	0.005		0.005	0.2	0.05	
C90900	86-89	12-14	0.25	0.25	0.15	0.5	0.05	0.005		0.005	0.2	0.05	
C91000	84-86	14-16	0.2	1.5	0.1	0.8	0.05	0.005		0.005	0.2	0.05	
C91100	82-85	15-17	0.25	0.25	0.25	0.5	1	0.005		0.005	0.2	0.05	
C91300	79-82	18-20	0.25	0.25	0.25	0.5	1	0.005		0.005	0.2	0.05	
C91600	86-89	9.7-10.3	0.25	0.25	0.2	1.2-2	0.3	0.005		0.005	0.2	0.05	
C91700	84-87	11.3-12.5	0.25	0.25	0.2	1.2-2	0.3	0.005		0.005	0.2	0.05	
C92200	86-90	5.5-6.5	1-2	3-5	0.25	1	0.05	0.005		0.005	0.25	0.05	
C92300	85-89	7.5-9	0.3-1	2.5-5	0.25	1	0.05	0.005		0.005	0.25	0.05	
C92310	Rem.	7.5-8.5	0.3-1.5	3.5-4.5		1		0.005	0.03	0.005			
C92400	86-89	9-11	1-2.5	1-3	0.25	1	0.05	0.005		0.005	0.25	0.05	
C92500	85-88	10-12	1-1.5	0.5	0.3	0.8-1.5	0.3	0.005		0.005	0.25	0.05	
C92600	86-88.5	9.3-10.5	0.8-1.5	1.3-2.5	0.2	0.7	0.03	0.005		0.005	0.25	0.05	
C92610	Rem.	9.5-10.5	0.3-1.5	1.7-2.8	0.15	1		0.005	0.03	0.005			
C92700	86-89	9-11	1-2.5	0.7	0.2	1	0.25	0.005		0.005	0.25	0.05	
C92710	Rem.	9-11	4-6	1	0.2	2	0.1	0.005		0.005	0.25	0.05	
C92800	78-82	15-17	4-6	0.8	0.2	0.8	0.05	0.005		0.005	0.25	0.05	
C92810	78-82	12-14	4-6	0.5	0.5	0.8-1.2	0.05	0.005		0.005	0.25	0.05	
C92900	82-86	9-11	2-3.2	0.25	0.2	2.8-4	0.5	0.005		0.005	0.25	0.05	
C93100	Rem.	6.5-8.5	2-5	2	0.25	1	0.3	0.005		0.005	0.25	0.05	
C93200	81-85	6.3-7.5	6-8	1-4	0.2	1	0.15	0.005		0.005	0.35	0.08	
Gun Metal													
C83300	92-94	1-2	1-2	2-6									
C83450	87-89	2.2-3	1.5-2.5	5.5-7.5	0.25	0.8-1.5	0.03	0.005		0.005	0.25	0.08	
C83500	86-88	5.5-6.5	3.5-5.5	1-2.5	0.25	0.5-1	0.03	0.005		0.005	0.25	0.08	
C83600	84-86	4.3-6	4-5.7	4.3-6	0.25	1	0.05	0.005		0.005	0.25	0.08	
C83800	82-83.5	3.5-4.2	5.8-6.8	5.5-8	0.25	1	0.03	0.005		0.005	0.25	0.08	
C83810	Rem.	2-3.5	4-6	7.5-9.5	0.5	2		0.005		0.1			
C84200	78-82	4-6	2-3	10-16	0.4	0.8	0.05	0.005		0.005	0.25	0.08	
C84400	79-82	2.5-3.5	6-8	7-10	0.4	0.8	0.02	0.005		0.005	0.25	0.08	
C84410	Rem.	3-4.5	7-9	7-11		1		0.01		0.2			0.05
C84500	77-79	2-4	6-7.5	10-14	0.4	1	0.02	0.005		0.005	0.25	0.08	
C84800	75-76.7	2-3	5.5-7	13-17	0.4	1	0.02	0.005		0.005	0.25	0.08	
C92210	86-89	4.5-5.5	1.7-2.5	3-4.5	0.25	0.7-1	0.03	0.005		0.005	0.2	0.05	
C92220	86-88	5-6	1.5-2.5	3-5.5	0.25	0.5-1	0.05						
C54400	Rem.	3.5-4.5	3.5-4.5	1.5-4.5	0.1		0.01-0.5						
Leaded Bronze													
C92410	Rem.	6-8	2.5-3.5	1.5-3	0.2	0.2		0.005	0.05	0.005	0.25		
C93400	82-85	7-9	7-9	0.8	0.2	1	0.5	0.005		0.005	0.5	0.08	
C93500	83-86	4.3-6	8-10	2	0.2	1	0.05	0.005		0.005	0.3	0.08	
C93600	79-83	6-8	11-13	1	0.2	1	0.15	0.005		0.005	0.55	0.08	

USA - ASTM

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
Leaded Bronze													
C93700	78-82	9-11	8-11	0.8	0.7	0.5	0.1	0.005		0.005	0.5	0.08	
C93720	83 Min	3.5-4.5	7-9	4	0.7	0.5	0.1				0.5		
C93800	75-79	6.3-7.5	13-16	0.8	0.15	1	0.05	0.005		0.005	0.8	0.08	
C93900	76.5-79.5	5-7	14-18	1.5	0.4	0.8	0.15	0.005		0.005	0.5	0.08	
C94000	69-72	12-14	14-16	0.5	0.25	0.50-1	0.05	0.005		0.005	0.5	0.08	
C94100	72-79	4.5-6.5	18-22	1	0.25	1	0.5	0.005		0.005	0.8	0.08	
C94300	67-72	4.5-6	23-27	0.8	0.15	1	0.08	0.005		0.005	0.8	0.08	
C94310	Rem.	1.5-3	27-34	0.5	0.5	0.25-1	0.05				0.5		
C94320	Rem.	4-7	24-32		0.35								
C94330	68.5-75.5	3-4	21-25	3	0.7	0.5	0.1				0.5		
C94400	Rem.	7-9	9-12	0.8	0.15	1	0.5	0.005		0.005	0.8	0.08	
C94500	Rem.	6-8	16-22	1.2	0.25	1	0.05	0.005		0.005	0.8	0.08	
C98200	Rem.	0.6-2	21-27	0.5	0.7	0.5	0.1				0.5		
C98400	Rem.	0.5	26-33	0.5	0.7	0.5	0.1				0.5		
C98600	60-70	0.5	30-40		0.35								
C98800	56.5-62.5	0.25	37.5-42.5	0.1	0.35		0.02						
C98820	Rem.	1-5	40-44		0.35								
C98840	Rem.	1-5	44-58		0.35								
Brass													
C21000	94-96		0.05	Rem.	0.05								
C22000	89-91		0.05	Rem.	0.05								
C22600	86-89		0.05	Rem.	0.05								
C23000	84-86		0.05	Rem.	0.05								
C23400	81-84		0.05	Rem.	0.05								
C24000	78.5-81.5		0.05	Rem.	0.05								
C24080	78-82		0.2	Rem.				0.1					
C25600	71-73		0.05	Rem.	0.05								
C26000	68.5-71.5		0.07	Rem.	0.05								
C26130	68.5-71.5		0.05	Rem.	0.05								
C26200	67-70		0.07	Rem.	0.05								
C26800	64-68.5		0.15	Rem.	0.05								
C27000	63-68.5		0.1	Rem.	0.07								
C27200	62-65		0.07	Rem.	0.07								
C27400	61-64		0.1	Rem.	0.05								
C28000	59-63		0.3	Rem.	0.07								
C31200	87.5-90.5		0.7-1.2	Rem.	0.1	0.25							
C31400	87.5-90.5		1.3-2.5	Rem.	0.1	0.7							
C31600	87.5-90.5		1.3-2.5	Rem.	0.1	0.7-1.2	0.04-0.1						
C32000	83.5-86.5		1.5-2.2	Rem.	0.1	0.25							
C33000	65-68		0.25-0.7	Rem.	0.07								
C33200	65-68		1.5-2.5	Rem.	0.07								
C33500	62-65		0.25-0.7	Rem.	0.15								



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SPECIALIST: COPPER ALLOYS

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USA - ASTM

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
Brass													
C34000	62-65		0.8-1.5	Rem.	0.15								
C34200	62-65		1.5-2.5	Rem.	0.15								
C34500	62-65		1.5-2.5	Rem.	0.15								
C35000	60-63		0.8-2	Rem.	0.15								
C35300	60-63		1.5-2.5	Rem.	0.15								
C35330	59-64		1.5-3.5	Rem.									
C35600	60-63		2-3	Rem.	0.15								
C36000	60-63		2.5-3.7	Rem.	0.35								
C36500	58-61	0.25	0.25-0.7	Rem.	0.15								
C37000	59-62		0.8-1.5	Rem.	0.15								
C37100	58-62		0.6-1.2	Rem.	0.15								
C37700	58-61		1.5-2.5	Rem.	0.3								
C37710	56.5-60		1-3	Rem.	0.3								
C38000	55-60	0.3	1.5-2.5	Rem.	0.35			0.5					
C38500	55-59		2.5-3.5	Rem.	0.35								
C40400	Rem.	0.35-0.7		2-3									
C40500	94-96	0.7-1.3	0.05	Rem.	0.05								
C40810	94.5-96.5	1.8-2.2	0.05	Rem.	0.08-0.12	0.11-0.2	0.028-0.4						
C40850	94.5-96.5	2.6-4	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.2						
C40860	94-96	1.7-2.3	0.05	Rem.	0.01-0.05	0.05-0.2	0.02-0.04						
C41000	91-93	2-2.8	0.05	Rem.	0.05								
C41100	89-92	0.3-0.7	0.1	Rem.	0.05								
C41120	89-92	0.3-0.7	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.35						
C41300	89-93	0.7-1.3	0.1	Rem.	0.05								
C41500	89-93	1.5-2.2	0.1	Rem.	0.05								
C42000	88-91	1.5-2		Rem.			0.25						
C42200	86-89	0.8-1.4	0.05	Rem.	0.05		0.35						
C42220	88-91	0.7-1.4	0.05	Rem.	0.05-0.2	0.05-0.2	0.02-0.05						
C42500	87-90	1.5-3	0.05	Rem.	0.05		0.35						
C42520	88-91	1.5-3	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.2						
C42600	87-90	2.5-4	0.05	Rem.	0.05-0.2	0.05-0.2	0.01-0.2						
C43000	84-87	1.7-2.7	0.1	Rem.	0.05								
C43400	84-87	0.4-1	0.05	Rem.	0.05								
C43500	79-83	0.6-1.2	0.1	Rem.	0.05								
C43600	80-83	0.2-0.5	0.05	Rem.	0.05								
C44250	73-76	0.5-1.5	0.07	Rem.	0.2	0.2	0.1						
C44300	70-73	0.8-1.2	0.07	Rem.	0.06								
C44400	70-73	0.8-1.2	0.07	Rem.	0.06						0.02-0.1		
C44500	70-73	0.8-1.2	0.07	Rem.	0.06		0.02-0.1						
C46200	62-65	0.5-1	0.2	Rem.	0.1								
C46400	59-62	0.5-1	0.2	Rem.	0.1								
C46500	59-62	0.5-1	0.2	Rem.	0.1								



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Brass													
C47000	57-61	0.25-1	0.05	Rem.				0.01					
C47940	63-66	1.2-2	1-2	Rem.	0.1-1	0.1-0.5							
C48200	59-62	0.5-1	0.4-1	Rem.	0.1								
C48500	59-62	0.5-1	1.3-2.2	Rem.	0.1								
C48600	59-62	0.3-1.5	1-2.5	Rem.									
C66200	86.6-91	0.2-0.7	0.05	Rem.	0.05	0.30-1	0.05-0.2						
C66300	84.5-87.5	1.5-3	0.05	Rem.	1.4-2.4		0.35						
C66400	Rem.	0.05	0.015	11-12	1.3-1.7								
C66410	Rem.	0.05	0.015	11-12	1.8-2.3								
C66420	Rem.			12.7-17	0.5-1.5								
C66430	Rem.	0.6-0.9	0.05	13-15	0.6-0.9		0.1						
C67500	57-60	0.5-1.5	0.2	Rem.	0.8-2			0.25	0.05-0.5				
C67600	57-60	0.5-1.5	0.5-1	Rem.	0.4-1.3				0.05-0.5				
C68000	56-60	0.75-1.1	0.05	Rem.	0.25-1.25	0.2-0.8		0.01	0.01-0.5	0.04-0.15			
C68100	56-60	0.75-1.1	0.05	Rem.	0.25-1.2			0.01	0.01-0.5	0.04-0.15			
C68700	76-79		0.07	Rem.	0.06			1.8-2.5					
C68800	Rem.		0.05	21.3-24.1	0.2			3-3.8					
C83400	88-92	0.2	0.5	8-12	0.25	1	0.03	0.005		0.005	0.25	0.08	
C85200	70-74	0.7-2	1.5-3.58	20-27	0.6	1	0.02	0.005		0.05	0.2	0.05	
C85400	65-70	0.5-1.5	1.5-3.8	24-32	0.7	1		0.35		0.05			
C85500	59-63	0.2	0.2	Rem.	0.2	0.2			0.2				
C85700	58-64	0.5-1.5	0.8-1.5	32-40	0.7	1		0.8		0.05			
C85710	58-63	1	1-2.5	32-39	0.8	1		0.2-0.8	0.5	0.05			
C85800	57Min	1.5	1.5	31-41	0.5	0.5	0.01	0.55	0.25	0.25	0.05	0.05	
C89540	58-64	1.2	0.1	32-38	0.5	1		0.1-0.6					0.6-1.2
C89550	58-64	1.2	0.1	32-38	0.5	1	0.01	0.1-0.6		0.25	0.05	0.05	0.6-1.2
High Tensile Brass													
C86700	68.5-71.5		0.07	Rem.	0.1				0.8-1.5				
C66800	60-63	0.3	0.5	Rem.	0.35	0.25		0.25	2-3.5	0.5-1.5			
C66900	62.5-64.5		0.05	Rem.	0.25				11.5-12.5				
C66950	Rem.		0.01	14-15	0.5			1-1.5	14-15				
C67000	63-68	0.5	0.2	Rem.	2-4			3-6	2.5-5				
C67300	58-63	0.3	0.4-3	Rem.	0.5	0.25		0.25	2-3.5	0.5-1.5			
C67400	57-60	0.3	0.5	Rem.	0.35	0.25		0.5-2	2-3.5	0.5-1.5			
C67420	57-58.5	0.35	0.25-0.8	Rem.	0.15-0.55	0.25		1-2	1.5-2.5	0.25-0.7			
C88100	66-68	0.2	0.2	Rem.	2-4			4.5-5.5	2.5-5				
C86200	60-66	0.2	0.2	22-28	2-4	1		3-4.9	2.5-5				
C86300	60-66	0.2	0.2	22-28	2-4	1		5-7.5	2.5-5				
C86400	56-62	0.5-1.5	0.5-1.5	34-42	0.4-2	1		0.5-1.5	0.1-1.5				
C86500	55-60	1	0.4	36-42	0.4-2	1		0.5-1.5	0.1-1.5				
C86550	57 Min	1	0.5	Rem.	0.7-2	1		0.5-2.5	0.1-3	0.1			



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Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
High Tensile Brass													
C86700	55-60	1.5	0.5-1.5	30-38	1-3	1		1-3	0.1-3.5				
C86800	53.5-57	1	0.2	Rem.	1-2.5	2.5-4		2	2.5-4				
C99700	54 Min	1	0.2	19-25	1	4-6		0.5-3	11-15				
C99750	55-61		0.5-2.5	17-23	1	5		0.25-3	17-23				
Silicon Brass													
C23030	83.5-85.5		0.05	Rem.	0.05					0.2-0.4			
C69050	70-75			Rem.		0.5-1.5		3-4		0.1-0.6			
C69100	81-84	0.1	0.05	Rem.	0.25	0.8-1.4		0.7-1.2	0.1	0.8-1.3			
C69300	73-77	0.2	0.1	Rem.	0.1	0.1	0.04-0.15		0.1	2.7-3.4			
C69400	80-83		0.3	Rem.	0.2					3.5-4.5			
C69430	80-83		0.3	Rem.	0.2					3.5-4.5			
C69700	75-80		0.5-1.5	Rem.	0.2				0.4	2.5-3.5			
C69710	75-80		0.5-1.5	Rem.	0.2				0.4	2.5-3.5			
C69750	78-83	0.05	0.8-1.3	Rem.	0.05	0.01	0.02		0.05	1.9-2.22			
C87400	79 Min		1	12-16				0.8		2.5-4			
C87500	79 Min		0.5	12-16				0.5		3-5			
C87600	88 Min		0.5	4-7	0.2				0.25	3.5-5.5			
C87610	90 Min		0.2	3-5	0.2				0.25	3-5			
C87800	80 Min	0.25	0.15	12-16	0.15	0.2	0.01	0.15	0.15	3.8-4.2	0.05	0.05	
C87850	74-78	0.3	0.1	Rem.	0.1	0.2	0.05-0.2		0.1	2.7-3.4	0.1		
Silicon Bronze													
C63400	Rem.	0.2	0.05	0.5	0.15	0.15		2.6-3.2		0.25-0.45			
C63600	Rem.	0.2	0.05	0.5	0.15	0.15		3-4		0.7-1.3			
C63800	Rem.		0.05	0.8	0.2	0.2		2.5-3.1	0.1	1.5-2.1			
C64200	Rem.	0.2	0.05	0.5	0.3	0.25		6.3-7.6	0.1	1.5-2.2			
C64210	Rem.	0.2	0.05	0.5	0.3	0.25		6.3-7	0.1	1.5-2			
C87300	94 Min		0.2	0.25	0.2				0.8-1.5	3.5-4.5			
C95600	88 Min					0.25		6-8		1.8-3.2			
Cu Ni Bronze													
C94700	85-90	4.5-6	0.1	1-2.5	0.25	4.5-6	0.05	0.005	0.2	0.005	0.15	0.05	
C94800	84-89	4.5-6	0.3-1	1-2.5	0.3	4.5-6	0.05	0.005	0.2	0.005	0.15	0.05	
C94900	79-81	4-6	4-6	4-6	0.25	4-6	0.05	0.005	0.1	0.005	0.25	0.08	
C96200	Rem.		0.01		1-1.8	9-11	0.02		1.5	0.5			
C96300	Rem.		0.01		0.5-1.5	18-22	0.02		0.25-1.5	0.5			
C96400	Rem.		0.01		0.25-1.5	28-32	0.02		1.5	0.5			
C96600	Rem.		0.01		0.8-1.1	29-33			1	0.15			
C96700	Rem.		0.01		0.4-1	29-33			0.4-1	0.15			
C96800	Rem.	7.5-8.5	0.005	1	0.5	9.5-10.5			0.05-0.3	0.05			
C96900	Rem.	7.5-8.5	0.02	0.5	0.5	14.5-15.5			0.05-0.3				
C96950	Rem.	5.8-8.5	0.02		0.05	11-15.5			0.05-0.4	0.3			



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Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi
Cu Ni Bronze													
C96970	Rem.	5.5-6.5	0.02	0.5	0.5	8.5-9.5			0.3				
C97300	53-58	1.5-3	8-11	17-25	1	11-14	0.05	0.005	0.5	0.05	0.35	0.08	
C97600	63-66	3.5-4.5	3.5-5	3-9	1	19.5-21	0.05	0.005	1	0.05	0.25	0.08	
C97800	64-67	4.5-5.5	1-2	1-4	1	24-28	0.05	0.005	1	0.05	0.2	0.08	
C99400	Rem.		0.25	5	5.5	5.5		2		2			
C99500	Rem.		0.25	2	5.5	5.5		2		2			

British - Std UK. (BS : 1400)

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr	Impurities
Aluminium Bronze															
AB-1	Rem.	0.1	0.05	0.5	1.5-3.5	1		8.5-10.5	1	0.25					0.3
AB-2	Rem.	0.1	0.05	0.5	4-5.5	4-5.5		8.8-10	1.5	0.1					0.3
AB-3	Rem.	0.1	0.03	0.4	0.5-0.7	0.1		6-6.4	0.5	2-2.4					0.8
Tin Bronze and Ni Tin Bronze															
CT-1	Rem.	9-11	0.25	0.05		0.25	0.15								0.8
CT-2	85-87.3	11.2-13	0.2	0.4	0.15	1.5-2	0.05	0.01	0.2	0.01	0.1	0.05			0.8
G1(88/10/2)	Rem.	9.5-10.5	1.5	1.75-2.75	0.15	1		0.01		0.02	0.2		0.03		0.5
G3	Rem.	6.5-7.5	0.1-0.5	1.5-3		5.25-5.75	0.02	0.01	0.2	0.01	0.2		0.02		0.5
G3WP	Rem.	6.5-7.5	0.1-0.5	1.5-3		5.25-5.75	0.02	0.01	0.2	0.01	0.2		0.02		0.5
PB 1	Rem.	10 Min	0.25	0.05	0.1	0.1	0.5 Min	0.01		0.02					0.6
PB 2	Rem.	11-13	0.5	0.3	0.15	0.5	0.15 Min	0.01		0.02					0.2
PB-4	Rem.	9.5 Min	0.75	0.5		0.5	0.4 Min								0.5
Gun Metal															
LG-1	Rem.	2-3.5	4-6	7-9.5	0.5	2	0.03	0.01		0.02	0.25	0.1	0.1		1
LG-2	Rem.	4-6	4-6	4-6	0.5	2		0.01		0.02			0.05		0.8
LG-4	Rem.	6-8.05	2.5-3.5	1.5-3	0.2	2		0.01		0.01	0.25		0.05		0.7
Leaded Bronze															
LB-1	Rem.	8-10	13-17	1		2	0.1			0.02					0.3
LB-2	Rem.	9-11	8.5-11	1	0.15	2	0.1	0.01		0.02	0.5				0.5
LB-4	Rem.	4-6	8-10	2		2	0.1			0.02	0.5				0.5
LB-5	Rem.	4-6	18-23	1		2	0.1			0.01	0.5				0.3
LPB-1	Rem.	6.5-8.5	2-5	2		1	0.3-0.6								0.5
Brass															
DCB 1	59-63		0.25	Rem.				0.5							0.75
DCB 3	58-63	1	0.5-2.5	Rem.	0.8	1		0.2-0.8	0.5	0.05					2
PCB 1	57-60	0.5	0.5-2.5	Rem.	0.3			0.5							0.5
SCB 1	70-80	1-3	2-5	Rem.	0.75	1		0.01							1
SCB 3	63-70	1.5	1-3	Rem.	0.75	1		0.1							1

British - Std UK. (BS : 1400)

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Bi	Cr
Brass														
SCB 4	60-63	1-1.5	0.5	Rem.				0.01						0.75
SCB 6	83-88		0.5	Rem.										1
High Tensile Brass														
HTB-1	55 Min	1	0.5	Rem.	0.7-2	1		0.5-2.5	0.1-3	0.1				0.2
HTB-3	55 Min	0.2	0.2	Rem.	1.5-3.25	1		3-6	1.5-4	0.1				0.2
Cu Chromium														
CC1-WP	Rem.													0.6-1.2
Cu Mn Aluminum														
CMA 1	Rem.	1	0.05	0.5	2-4	1.5-4.5	0.05	7.5-8.5	11-15	0.15				0.3
CMA 2	Rem.	1	0.05	0.5	2-4	1.5-4.5	0.05	8.5-9	11-15	0.15				0.3

France - NFA53

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
Aluminium Bronze 709													
CuAl10Fe3	Rem	0.2	0.05	0.5	2-4	1.5		8.5-11	3	0.2			0.8
CuAl10Fe5Ni5	Rem	0.2	0.05	0.5	3-5.5	4-8.5		8.5-11	1.5	0.1			0.8
CuAl12Fe5Ni5	Rem	0.2	0.05	0.5	3-6	4-6		10.5-12	1.5	0.2			0.8
CuAl9	Rem				1-2	1		8.5-10.5	0.5				0.5
CuAl9Ni3Fe2	Rem	0.2	0.05	0.5	1-3	1.5-4		8.5-10.5	1.5	0.2			0.8
Tin Bronze 707													
CuSn12	Rem	10.5-13	2.5	2	0.25	2	0.3	0.01		0.01		0.05	0.5
CuSn12P	Rem	11-13	1	1	0.2	2	0.05-0.4	0.01		0.01		0.05	1.2
CuSn14	83.5 Min	12.5 Min		1						0.01			1.5
CuSn8	Rem	7-9	0.5-3	3	0.2	1.5		0.01		0.01		0.1	1
Gun Metal 707													
CuSn3Zn9Pb7	Rem	2-3.5	6-8	7-10	0.3	1.5		0.01		0.01		0.1	1
CuSn5Pb5Zn5	Rem	4-6	4-6	4-6	0.3	1.5		0.01		0.01		0.1	1
CuSn7Pb6Zn4	Rem	6-8	5-7	2-5	0.2	1.5		0.01		0.01		0.1	1
Leaded Bronze													
CuPb20Sn5	Rem	4-6	18-23	2	0.25	2.5		0.01		0.01			1
CuSn10Pb10	Rem	9-11	8-11	2	0.25	2	0.3	0.01		0.01			1
Brass 703													
CuZn33PbY20	65-70	0.8	1.8	Rem	0.5	0.5	0.05	0.1	0.2	0.05			
CuZn40Y30	59-63	0.7	0.5-2	Rem	0.5	0.8		0.2-0.8	0.5	0.05			
CuZn40Y40	59-63	0.7	0.5-2	Rem	0.5	0.8		0.2	0.5	0.2			
High Tensile Brass 703													
CuZn19Al6Y20	60-66	0.1	0.1	18-25	2-3	1		5-7.5	2.5-4				
CuZn23Al4Y20	60-66	0.2	0.2	20-27	1.5-3	2.5		3-5	2.5-4.5				
CuZn30AlFeMnY40	59-67	0.3	1.5	Rem	0.5-2	2.5		1-2.5	1-3.5	1			

Germany - DIN

Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
Aluminium Bronze													
CuAl10Fe1(CW305G)	Rem	0.1	0.02	0.5	0.5-1.5	1		9-10	0.5	0.2			0.2
CuAl10Fe3Mn2(CW306G)	Rem	0.1	0.05	0.5	2-4	1		9-11	1.5-3.5	0.2			0.2
CuAl10Ni5Fe4(CW307G)	Rem	0.1	0.05	0.4	3-5	4-6		8.5-11	1	0.2			0.2
CuAl10Fe5Ni5	76-82.5	0.1	0.03	0.4	4-5.3	4-5.5		8.8-10	2.5	0.1			
CuAl11Fe6Ni6(CW308G)	Rem	0.1	0.05	0.5	5-7	5-7		10.5-12.5	1.5	0.2			0.2
CuAl11Ni6Fe5	Rem		0.15	0.5	4.8-7.3	5-7.5		10.5-12.5	1.5	0.2			0.3
CuAl5	92.5-96	0.3	0.02	0.5	0.4	0.8		4-6	0.3	0.2			0.3
CuAl5As(CW300G)	Rem	0.05	0.02	0.3	0.2	0.2		4-6.5	0.2				0.3
CuAl6Si2Fe(CW301G)	Rem	0.1	0.05	0.4	0.5-0.7	0.1		6-6.4	0.1	2-2.4			0.2
CuAl7Si2(CW302G)	Rem	0.2	0.05	0.5	0.3	0.2		6.3-7.6	0.2	1.5-2.2			0.2
CuAl8	Rem		0.02	0.5	0.5	0.8		7-9	0.8	0.2			0.3
CuAl8Fe	Rem	0.2	0.15	0.5	1.5-3.5	1		6.5-9	1	0.2			0.3
CuAl8Fe3(CW303G)	Rem	0.1	0.05	0.5	1.5-3.5	1		6.5-8.5	1	0.2			0.2
CuAl9Fe3Mn2	Rem		0.05	0.5	2-4	1		9-11	1.5-3.5	0.2			0.3
CuAl9Mn	Rem		0.15	0.5	1.5	0.8		8-10	1.5-3	0.2			0.3
CuAl9Ni3Fe2(CW304G)	Rem	0.1	0.05	0.2	1-3	2-4		8-9.5	2.5	0.1			0.3
G-CuAl10Fe	83-89	0.2	0.1	0.4	2-3.8	2.7		8.7-10.7	0.8	0.1			1
G-CuAl10Ni	76-80.5	0.1	0.03	0.2	3.5-5.3	4.5-6.3		9-10.6	2.3	0.07			0.8
G-CuAl11Ni	72-77	0.1	0.03	0.2	4.3-5.8	5.3-6.8		9.3-11.3	2.3	0.07			0.8
G-CuAl8Mn	82-84.5	0.1	0.05	0.15	0.6	1.2-1.8		7.3-8.8	5.3-6.5	0.05			0.8
G-CuAl9Ni	82-86.5	0.2	0.1	0.2	1-2.8	1.5-3.8		8.7-9.8	2.3	0.07			0.8
Tin Bronze													
GbCuSn10	88.5-90.5	9.3-11	0.8	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04	
CuSn4(CW450K)	Rem	3.5-4.5	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn5(CW451K)	Rem	4.5-5.5	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn5Pb1(CW458K)	Rem	3.5-5.5	0.5-1.5	0.3	0.1	0.2	0.01-0.4						0.2
CuSn6	86-89.5	5.7-6.5	1.2-2	3.2-5	0.25	1	0.03	0.01		0.01		0.08	
CuSn6(CW452K)	Rem	5.5-7	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn8(CW453K)	Rem	7.5-8.5	0.02	0.2	0.1	0.2	0.01-0.4						0.2
CuSn8P(CW459K)	Rem	7.5-8.5	0.05	0.3	0.1	0.3	0.2-0.4						0.2
CuSn8PbP(CW460K)	Rem	7.5-9	0.1-0.5	0.3	0.1	0.3	0.2-0.4						0.2
CuSnPb2P(CW455K)	Rem	3.5-4.5	1.5-2.5	0.3	0.1	0.2	0.2-0.4						0.2
GbCuSn12	86-88	11.3-13	0.8	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04	
GbCuSn12-B	Rem	11.8-13	0.8-1		0.15	1-1.5	0.06	0.01	0.1	0.01	0.15	0.03	
GbCuSn12Ni	84-87	11.3-13	0.15	0.3	0.15	1.5-2.4	0.05	0.01	0.1	0.01	0.05	0.04	
G-CuSn10Zn	86-88.5	9.2-11	1.3	1-3	0.2	1.8	0.03	0.01	0.1		0.25	0.06	
G-CuSn12Pb	84.3-87.3	11.3-13	1.2-2	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04	
G-SnBz10	89-91	9-11											
G-SnBz12	87-89	11-13											
G-SnBz14	85-87	13-15											
G-SnBz20	78-80	20-22											
RG-10	85-87	9-11	1.5	1.75-2.75	0.15	1		0.01		0.02	0.2		

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Copper Alloys	Cu	Sn	Pb	Zn	Fe	Ni	P	Al	Mn	Si	Sb	S	Impurities
Gun Metal													
G-CuSn2ZnPb	80-85	1.5-3	4-6	7-9	0.3	1.5-2.5	0.03	0.01	0.1	0.01	0.25	0.06	
G-CuSn5ZnPb	83-5-86	4.3-6	4-6	4.5-6.5	0.2	2.3	0.03	0.01	0.1	0.01	0.25	0.06	
G-CuSn6ZnNi	83-5-87	5.8-7	2.5-4	1.5-3	0.2	1.5-2.5	0.03	0.01	0.1	0.01	0.3	0.06	
G-CuSn7Zn5Pb	81-84.5	6.3-8	5.3-7	3.3-5	0.2	1.8	0.03	0.01	0.1	0.01	0.25	0.06	
RG-2	83	2	8	5									
RG-4	92-94	3-5	1-2	2									
RG-5	84-86	4-6	4-6	4-6	0.2	2	0.03	0.01	0.1	0.01	0.25	0.06	
RG-5 (Low Lead)	Rem	3.8-4.5	2.5-3	5.5-6.5	0.3	0.4-0.6	0.03	0.01	0.1	0.01	0.1	0.04	
RG-6	85	6	2	3		1							
RG-7	83-85	6-8	3-5	3-5									
RG-7B	Rem	6.8-8	5.3-7	3.3-5	0.2	1-1.5	0.03	0.01	0.1	0.01	0.25	0.03	
RG-A	81-87	5-8	4-6	7									
Leaded Tin Bronze													
G-CuPb10Sn	78-81	9.2-11	8.5-10.5	0.8	0.15	1.3	0.03	0.01	0.1	0.01	0.3	0.08	0.5
G-CuPb15Sn	75-78	7.3-9	13.5-16.5	2	0.15	1.8	0.03	0.01	0.1	0.01	0.4	0.08	0.5
G-CuPb20Sn	70-75	3.7-5.5	18.5-23	2	0.15	2.3	0.03	0.01	0.1	0.01	0.4	0.08	0.5
G-CuPb22Sn	70-80	0.5-3	18-26	0.5	0.7	2.5	0.03				0.2		1.2
G-CuPb5Sn	84-86.5	9.5-11	4.3-5.8	0.8	0.15	1.3	0.03	0.01	0.1	0.01	0.25	0.08	0.5
G-PbBz25	Rem	3	18-28	3	0.7	2.5	0.05				0.5		1
G-SnPbBz10	Rem	9-11	8-12										
G-SnPbBz15	Rem	6-8	13-18	3	0.25	2	0.05				0.5		0.5
G-SnPbBz20	69-77	3.5-5.5	18-23	3	0.25	2.5	0.05				0.5		0.5
G-SnPbBz22	Rem	2-5	18-25										
G-SnPbBz5	Rem	9-11	3-7										
Brass													
CuSn3Zn9(CW454K)	Rem	1.5-3.5	0.1	7.5-10	0.1	0.2	0.2						0.2
CuZn10(CW501L)	89-91	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn13Al1Ni1Si(CW700R)	81-84	0.1	0.05	Rem.	0.25	0.8-1.4		0.7-1.2	0.1	0.8-1.3			0.5
CuZn15(CW502L)	84-86	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn19Sn(CW701R)	80-82	0.2-0.5	0.05	Rem.	0.05	0.3							0.2
CuZn20(CW503L)	79-81	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn20Al2	70-72.5		0.07	Rem.	0.07	0.1	0.01	1.8-2.3	0.1				0.1
CuZn28(CW504L)	71-73	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn28Sn1	70-72.5	0.9-1.3	0.07	Rem.	0.07	0.1	0.01		0.1				0.1
CuZn30(CW505L)	69-71	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn33(CW506L)	66-68	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn35Pb1(CW600N)	62.5-64	0.1	0.8-1.6	Rem.	0.1	0.3		0.05					0.1
CuZn35Pb2(CW601N)	62-63.5	0.1	1.6-2.5	Rem.	0.1	0.3		0.05					0.1
CuZn36(CW507L)	63-5-65.5	0.1	0.05	Rem.	0.05	0.3		0.02					0.1
CuZn36Pb2Sn1(CW711R)	59-5-61.5	0.5-1	1.3-2.2	Rem.	0.1	0.3							0.2
CuZn36Pb3(CW603N)	60-62	0.2	2.5-3.5	Rem.	0.3	0.3		0.05					0.2
CuZn36Sn1Pb(CW712R)	61-63	1-1.5	0.2-0.6	Rem.	0.1	0.2							0.2
CuZn37(CW508L)	62-64	0.1	0.1	Rem.	0.1	0.3		0.05					0.1

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