

SR.NO	STANDARD	NAME	COMPOSITION												TENSILE	YIELD	ELONGATION	TYPICAL USES
			CU (%)	PB (%)	ZN (%)	FE (%)	AS(%)	AL(%)	SN(%)	SI(%)	TE(%)	ZR(%)	MN(%)	CD(%)	(KSI) (TYP)	(KSI) (TYP)	(%) (TYP)	
01	C21000	95/5 GILDING METAL	94.00-96.00	0.05	4.00-6.00	0.05												Connectors, Rotor Bars, AC Motors, Fasteners
02	C22000	COMMERCIAL BRONZE	89.00-91.00	0.05	9.00-11.00	0.05												Cable Wrap, Wave Guides, Bolt, Line Clamps, Rivets, Screw Shells, Screws
03	C23000	RED BRASS	84.00-86.00	0.05	14.00-16.00	0.05								45.00				Conduit, Screw Shell, Sockets, Eyelets, Fasteners,
04	C24000	LOW BRASS	78.50-81.50	0.05	18.50-21.50	0.05												Battery Caps
05	C26130	70/30 ARSENICAL BRASS	68.50-71.50	0.05	28.50-31.50	0.05	0.02-0.08							62.00	52.00	25.00		Flashlights Shell, Lamp Fixtures, Reflectors, Screw Shell, Socket Shell, Grommets, Pins
06	C26000	70/30 BRASS	68.50-71.50	0.07	28.50-31.50	0.05								20.00		55.00		Reflectors, Terminal Connectors, Flashlight Shell, Eyelets, Fastners
07	C26800	66 YELLOW BRASS	64.00-68.50	0.09	31.50-36.00	0.05								61.00	50.00	23.00		Clips, Lamp Fixtures, Reflectors, wire, eyelets, fastners, pins
08	C27000	65 YELLOW BRASS	63.00-68.50	0.09	31.50-37.00	0.07												Lamp Fixtures, Reflectors, Screw Shells, Fastners, Pins, Rivets, Screws
09	C27200	63/37 COMMON BRASS	62.00-65.00	0.07	35.00-38.00	0.07								74.00	55.00	10.00		Fasteners, Heat Exchanger Shells, Pump Cylinder Liners
10	C35600	EXTRA HIGH LEADED BRASS	60.00-63.00	2.00-3.00	35.00-38.00	0.15												Channel Plate
11	C37000	FREE CUTTING MUNTZ METAL	59.00-62.00	0.80-1.50	36.00-40.00	0.15												Automatic Screw Machine Parts
12	C37710	FREE CUTTING BRASS	56.50-60.00	1.00-3.00	37.00-42.00	0.30												Valve Bodies for Spray Tank
13	C38000	SECTION BRASS	55.00-60.00	1.50-2.50	37.00-42.00	0.35		0.50	0.30									Exturded Shapes, Builders Hardware, Hinges
14	C38500	FREE CUTTING BRASS	55.00-59.00	2.50-3.50	37.00-41.00	0.35								60.00		30.00		Valves, Forgings, Gauges
15	C36000	FREE CUTTING BRASS	60.00-63.00	2.50-3.00	34.00-37.00	0.35								45.00	17.00	15.00		Bolts, Nuts, Screws, Plumbing Fittings
16	C37700	FORGING BRASS	58.00-61.00	1.50-2.50	36.00-33.00	0.30								52.00		45.00		Covers, Fuse Bodies, Forgings and Pressing
17	C28000	MUNTZ METAL	59.00-63.00	0.09	37.00-41.00	0.07												Bolts, Condenser Tubes
18	C27400	YELLOW BRASS	61.00-64.00	0.09	36.00-39.00	0.05								74.00	55.00	10.00		Plumbing Accessories
19	C46400	NAVAL BRASS	59.00-62.00	0.20	37.00-40.00	0.10			0.50-1.00									Precision Shipboard Equipment, Bolts, Nuts, Rivets
20	C67500	MANGANESE BRONZE	57.00-60.00	0.20	36.00-39.00	0.80-2.00		0.25	0.50-1.50				0.05-0.50	84.00	60.00	19.00		Bolts, Bushing, Valve Bodies
21	C35300	HIGH LEADED BRASS	60.00-63.00	1.50-2.50	34.00-37.00	0.15								61.00	50.00	20.00		Nuts, Rivets, Screws
22	C35330	DZR BRASS	59.50-64.00	1.50-3.50	32.00-37.00		0.02-0.25							50.00	35.00	20.00		Plumbing Fittings
23	C69300	ECO BRASS	73.00-77.00	0.09	19.00-23.00	0.10			0.20	2.70-3.40			0.10	86.00	51.00	10.00		Bolts, Nuts, Screws, Plumbing Fittings
24	C83600	LEADED RED BRASS	84.00-86.00	4.00-6.00	4.00-6.00	0.30		0.005	4.00-6.00					30.00	14.00	20.00		Switches, Screws, Bushing
25	C26200	YELLOW BRASS	67.00-70.00	0.07	30.00-33.00	0.05								62.00	52.00	25.00		Reflectors, Socket Shell, Fastners, Pins
26	C34500	HIGH LEADED BRASS	62.00-65.00	1.50-2.50	33.00-36.00	0.15								50.00	20.00	15.00		Plumbing Fittings, Flare Fittings
27	C14500	TELLURIUM BEARING COPPER	99.90	0.004-0.012							0.40-0.70							Electrical Connectors, switch parts, Plumbing Fittings
28	C15000	ZIRCONIUM COPPER	99.90									0.10-0.20		85.00				Circuit Breaker Switches, Commutators, Switches
29	C16200	CADMIUM COPPER	98.80			0.02							0.70-1.20	72.00	59.00	1.00		Cable Wrap, Clamps, Connectors, Contacts, Fuse Clips, Switch Gear,
30	C17000	BERYLLIUM COPPER	98.80					0.20		0.20								Connectors, Relay Parts, Fastners, Lock Washers
31	C17200	BERYLLIUM COPPER	98.80					0.20		0.20								Belleville Washers, Clips, Connectors, Contact Bridges, Bolts, Fastners
32	C17300	BERYLLIUM COPPER	98.80	0.20-0.60				0.20		0.20				195.00		5.00		Clip, Connector, Bolt, Fastners
33	C17410	BERYLLIUM COPPER	99.00			0.20		0.20		0.20				105.00		15.00		Connectors, Contacts, Terminals, Fastners
34	C17500	BERYLLIUM COPPER	97.00			0.10		0.20		0.20				120.00		20.00		Conductors, Relay Parts, Fastners
35	C17510	BERYLLIUM COPPER	98.00			0.10		0.20		0.20				115.00	108.00	8.00		Conductors, Connectors, Fastners
36	C43600	TIN BRASS	80.00-83.00	0.05	17.00-20.00	0.05			0.20-0.50									
37	C50700	PHOSPHOR BRONZE 1.8% ALLOY	98.00	0.05		0.10			1.50-2.00									Lead Frames, Messenger Wire, Resistance Wire
38	C51000	PHOSPHOR BRONZE GRADE A 5% ALLOY	93.00	0.05	0.30	0.10			4.20-5.80									Connectors, Clips, Wire Brushes, Cotter Pins, Fastners

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39	C52100	PHOSPHOR BRONZE GRADE C 8% ALLOY	91.00	0.05	0.20	0.10			7.00-9.00									Connectors, Clips, Wire Brushes, Cotter Pins, Fastners
40	C54400	PHOSPHOR BRONZE GRADE B - 2	85.00-87.00	3.00-4.00	1.50-4.50	0.10			3.50-4.50						62.00	54.00	19.00	Connectors, Bearings, Bushings, Shafts
41	C65500	HIGH SILICON BRONZE A	90.00-92.00	0.05	1.50	0.80				2.80-3.80			0.50-1.30					Bolts, Burrs, Clamps, Nails, Nuts, Rivets
42	C71000	CUPRO NICKEL ALLOY 80/20	80.00	0.05	1.00	1.00							1.00		68.00	62.00	8.00	Resistors, Springs, Ferrules
43	C71500	CUPRO NICKEL ALLOY 70/30	70.00	0.05	1.00	1.00							1.00		55.00	20.00	45.00	Ferrules, Condensers
44	C72500	TIN-BEARING COPPER NICKET 9-2	85.00-87.00	0.05	0.50	0.60			1.80-2.80				0.20		71.00	65.00	6.00	Connectors, Relays, Lead Frames,
45	C73500	NICKEL SILVER 72-18	70.50-73.50	0.09	Rem	0.25							0.50		69.00	58.00		
46	C75200	NICKEL SILVER 65-18	63.00-66.50	0.05	Rem	0.25							0.50		74.00	62.00	8.00	Rivets, Screws, Core Bars
47	C75700	NICKEL SILVER 65-12	63.50-66.50	0.05	Rem	0.25							0.50		73.00	60.00	11.00	Slide Fastners, Optical Parts
48	C76400	NICKEL SILVER 60-18	58.50-61.50	0.05	Rem	0.25							0.50					
49	C86300	MANGANESE BRONZE	60.00-66.00	0.20	22.00-28.00	2.00-4.00		5.00-7.50	0.20				2.50-5.00					Electrical Components, Switches, Screw Down Nuts, Bushing
50	C86500	MANGANESE BRONZE	55.00-60.00	0.40	36.00-42.00	0.40-2.00		0.50-1.50	1.00				0.10-1.50		71.00		30.00	Brackets, Electric Hardware, Hooks, Struts
51	C89835	BISMUTH TIN BRONZE	85.00-89.00	0.09	2.00-4.00	0.20		0.005	6.00-7.50	0.005					35.00	18.00	20.00	
52	C90300	TIN BRONZE	86.00-89.00	0.30	3.00-5.00	0.20		0.005	7.50-9.00	0.005					45.00		30.00	Swivel, Bearings, Bushing
53	C90500	TIN BRONZE	86.00-89.00	0.30	1.00-3.00	0.20		0.005	9.00-11.00	0.005					45.00		25.00	Clamps, Connectors, Nuts
54	C90700	TIN BRONZE	88.00-90.00	0.50	0.50	0.15		0.005	10.00-12.00	0.005					55.00	30.00	16.00	Bearings
55	C91100	HIGH TIN BRONZE	82.00-85.00	0.25	0.25	0.25		0.005	15.00-17.00	0.005					35.00	25.00	2.00	Hollow Conductors, Bearings, Bushing
56	C92900	LEADED NICKEL TIN BRONZE	82.00-86.00	2.00-3.20	0.25	0.20		0.005	9.00-11.00	0.005					47.00	26.00	20.00	Bearings, Pump Bodies
57	C93200	LEADED TIN BRONZE	81.00-85.00	6.00-8.00	1.00-4.00	0.20		0.005	6.30-7.50	0.005								Washers, Bearings, Bushings
58	C93700	HIGH LEADED TIN BRONZE	78.00-82.00	8.00-11.00	0.80	0.70		0.005	9.00-11.00	0.005					35.00	18.00	20.00	Brackets, Nuts, Washers, Bearings
59	C93800	HIGH LEADED TIN BRONZE	75.00-79.00	13.00-16.00	0.80	0.15		0.005	6.30-7.50	0.005					30.00	20.00	12.00	Bearings
60	C94100	HIGH LEADED TIN BRONZE	72.00-79.00	18.00-22.00	1.00	0.25		0.005	4.50-6.50	0.005								
61	C94300	HIGH LEADED TIN BRONZE	67.00-72.00	23.00-27.00	0.80	0.15		0.005	4.500-6.00	0.005					27.00	13.00	10.00	Soft Bushing, Soft Metal Application
62	C95400	ALUMINIUM BRONZE	83.00			3.00-5.00		10.00-11.50					0.50					Large Hold Down Screws, Nuts, Bearings, Valves
63	C95500	NICKEL ALUMINIUM BRONZE	78.00			3.00-5.00		10.00-11.50					3.50					Electric Hardware, Nuts, Bearings
64	C95900	ALUMINIUM BRONZE	Rem			3.00-5.00		12.00-13.50					1.50					
65	C31400	LEADED COMMERCIAL BRONZE	87.50-90.50	1.30-2.50	Rem	0.10									55.00	50.00	12.00	Connectors, Nuts, Screws
66	C31600	LEADED COMMERCIAL BRONZE (NICKEL-BEARING)	87.50-90.50	1.30-2.50	Rem	0.10									63.00	56.00	12.00	Connectors, Nuts, Screws
67	C53400	PHOSPHOR BRONZE B-1	Rem	0.80-1.20	0.30	0.10			3.50-5.80									Bearings, Bushings, Fastners
68	C63000	NICKEL ALUMINIUM BRONZE	Rem		0.30	2.00-4.00		9.00-11.00		0.25			1.50		110.00		10.00	Plunger Tips, Valve Balls
69	C64200	ALUMINIUM BRONZE	Rem	0.05	0.50	0.30	0.09	6.30-7.60	0.20	1.50-2.20			0.10		75.00	35.00	32.00	Pole Line Hardware, Nuts, Bolts
70	C65100	LOW-SILICON BRONZE B	Rem	0.05	1.50	0.80				0.80-1.20			0.70					Conduit, Bolts, Fastners, Nuts, Rivets
71	C67300	MANGANESE BRONZE	58.00-63.00	0.40-3.00	Rem	0.50		0.25	0.30	0.50-1.50			2.00-3.50					Fasteners, Lead Screw Nuts, Bearings, Connecting Rods
72	C83800	LEADED SEMI-RED BRASS	82.00-83.80	5.00-7.00	5.00-8.00	0.30		0.005	3.30-4.20	0.005								Electrical Components, Switches, Bushings, Valves
73	C84200	LEADED SEMI-RED BRASS	78.00-82.00	2.00-3.00	10.00-16.00	0.40		0.005	4.00-6.00	0.005					35.00	14.00	27.00	Bushings, Plugs, Tees, Unions
74	C84400	LEADED SEMI-RED BRASS	78.00-82.00	6.00-8.00	7.00-10.00	0.40		0.005	2.30-3.50	0.005					34.00	15.00	26.00	Electrical Equipment, Valves
75	C84800	LEADED SEMI-RED BRASS	75.00-77.00	5.50-7.00	13.00-17.00	0.40		0.005	2.00-3.00	0.005								Washers, Plumbing Fittings
76	C85700	LEADED NAVAL BRASS	58.00-64.00	0.80-1.50	32.00-40.00	0.70		0.80	0.50-1.50	0.05					50.00	18.00	40.00	Building Hardware
77	C86200	MANGANESE BRONZE	60.00-66.00	0.20	22.00-28.00	2.00-4.00		3.00-4.90	0.20				2.50-5.00					Brackets, Screw Down Nuts, Bushing, Hooks
79	C86400	MANGANESE BRONZE	56.00-62.00	0.50-1.50	34.00-42.00	0.40-2.00		0.50-1.50	0.50-1.50				0.10-1.50		65.00		20.00	Electrical Components, Switches, Nuts
80	C86700	MANGANESE BRONZE	55.00-60.00	0.50-1.50	30.00-38.00	1.00-3.00		1.00-3.00	1.50				0.10-3.50					Screw Down Nuts, Brackets
81	C89320	BISMUTH TIN BRONZE	87.00-91.00	0.09	1.00	0.20		0.005	5.00-7.00	0.005					40.00	20.00	30.00	Washers, Bushings
82	C89325	BISMUTH TIN BRONZE	84.00-88.00	0.10	1.00	0.15		0.005	9.00-11.00	0.005					35.00	18.00	20.00	Bushings
83	C89520	BISMUTH TIN BRONZE	85.00-87.00	0.09	4.00-6.00	0.20		0.005	5.00-6.00	0.005					31.00	21.00	10.00	Plumbing Castings

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84	C89831	BISMUTH TIN BRONZE	87.00-91.00	0.10	2.00-4.00	0.30		0.005	2.70-3.70	0.005					34.00	15.00	20.00	Impellers, Pumps
85	C89833	BISMUTH TIN BRONZE	86.00-91.00	0.09	2.00-6.00	0.30		0.005	4.00-6.00	0.005					37.00	17.00	28.00	Impellers, Pumps
86	C89844	TIN BRONZE	83.00-86.00	0.20	7.00-10.00	0.30		0.005	3.00-5.00	0.005					34.00	15.00	30.00	Fittings, Valves
87	C90800	TIN BRONZE	85.00-89.00	0.25	0.25	0.15		0.005	11.00-13.00	0.005								Speed Reducers
88	C90810	HIGH TIN BRONZE	Rem	0.25	0.30	0.15		0.005	11.00-13.00	0.005								
89	C91000	TIN BRONZE	84.00-86.00	0.20	1.50	0.10		0.005	14.00-16.00	0.005					32.00	25.00	2.00	Bearings, Piston Rings
90	C91300	TIN BRONZE	79.00-82.00	0.25	0.25	0.25		0.005	18.00-20.00	0.005					35.00	30.00	0.50	Bearings, Valve Bodies
91	C91600	HIGH TIN BRONZE	86.00-89.00	0.25	0.25	0.20		0.005	9.70-10.80	0.005					60.00	32.00	16.00	Nuts, Bearings, Bushings
92	C91700	HIGH TIN BRONZE	84.00-87.00	0.25	0.25	0.20		0.005	11.30-12.50	0.005					60.00	32.00	16.00	Conprise Gears
93	C92200	LEADED TIN BRONZE	86.00-90.00	1.00-2.00	3.00-5.00	0.25		0.005	5.50-6.50	0.005					40.00	20.00	30.00	Nuts, Bearings
94	C92300	LEADED TIN BRONZE	85.00-89.00	0.30-1.00	2.50-5.00	0.25		0.005	7.50-9.00	0.005					40.00	20.00	25.00	Nuts, Bearings
95	C92500	NICKEL PHOSPHOR BRONZE	85.00-88.00	1.00-1.50	0.50	0.30		0.005	10.00-12.00	0.005					44.00	20.00	20.00	Gears
96	C92700	LEADED TIN BRONZE	86.00-89.00	1.00-2.50	0.70	0.20		0.005	9.00-11.00	0.005					42.00	21.00	20.00	Lead Screw Nuts, Bearings
97	C92800	LEADED TIN BRONZE	78.00-82.00	4.00-6.00	0.80	0.20		0.005	15.00-17.00	0.005					40.00	30.00	1.00	Bushings, Piston Rings
98	C93400	HIGH LEADED TIN BRONZE	82.00-85.00	7.00-9.00	0.80	0.20		0.005	7.00-9.00	0.005								Washers, Bearings, Bushing
99	C93500	HIGH LEADED TIN BRONZE	83.00-86.00	8.00-10.00	2.00	0.20		0.005	4.30-6.00	0.005								Bearings, Impellers
100	C93600	HIGH LEADED TIN BRONZE	79.00-83.00	11.00-13.00	1.00	0.20		0.005	6.00-8.00	0.005					35.00	21.00	15.00	Rod Bushing, Seals
101	C93900	HIGH LEADED TIN BRONZE	76.50-79.50	14.00-18.00	1.50	0.40		0.005	5.00-7.00	0.005					32.00	22.00	7.00	Bearings, Pump Bodies
102	C94000	HIGH LEADED TIN BRONZE	69.00-72.00	14.00-16.00	0.50	0.25		0.005	12.00-14.00	0.005								
103	C94700	NICKEL TIN BRONZE	85.00-90.00	0.09	1.00-2.50	0.25		0.005	4.50-6.00	0.005			0.20					Circuit Breaker Parts
104	C94800	LEADED NICKEL TIN BRONZE	84.00-89.00	0.30-1.00	1.00-2.50	0.25		0.005	4.50-6.00	0.005			0.20					Bearings
105	C95200	ALUMINIUM BRONZE	86.00			2.50-4.00		8.50-9.50										Electric Hardware, Nuts
106	C95300	ALUMINIUM BRONZE	86.00			0.80-1.50		9.00-11.00										Connectors, Stipped Nuts
107	C95410	ALUMINIUM BRONZE	83.00			3.00-5.00		10.00-11.50					0.50					Bearings, Bushings
108	C95600	NICKEL ALUMINIUM BRONZE	88.00					6.00-8.00		1.80-3.20				75.00	34.00	18.00		Cable Connectos, Terminals
109	C95800	NICKEL ALUMINIUM BRONZE	79.00	0.03		3.50-4.50		8.50-9.50		0.100			0.80-1.50					Nuts, Bushings
110	C97300	NICKEL SILVER BRONZE	53.00-58.00	8.00-11.00	17.00-25.00	1.50		0.005	1.50-3.00	0.150			0.50					Valves
111	C97600	NICKEL SILVER BRONZE	63.00-67.00	3.00-5.00	3.00-9.00	1.50		0.005	3.50-4.50	0.150			1.00					Pumps, Valves
112	C97800	NICKEL SILVER BRONZE	64.00-67.00	1.00-2.50	1.00-4.00	1.50		0.005	4.00-5.50	0.150			1.00					Valves
113	C99500	SPECIAL ALLOYS	Rem	0.09	0.50-2.00	3.00-5.00		0.50-2.00		0.50-2.00			0.50					Electrical Parts
114	C10100	OXYGEN FREE COPPER	99.99	0.005	0.0001	0.0010	0.0005											Conductors, Bus Bars
115	C10200	OXYGEN FREE COPPER	99.95											42.00	36.00	14.00		Conductors, Bus Bars, Coaxial Cables
116	C10700	OXYGEN FREE SILVER BEARING COPPER	99.95											42.00	36.00	14.00		Bus Bars, Conductors, Terminal Connectors
117	C11000	ELECTROLYTIC TOUGH PITCH COPPER	99.90											32.00	10.00	45.00		Bus bars, Contacts, Terminals