

**Leaded Brass****Material Grade****Leaded Brass - Chemical Composition**

	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	OI
IS:319 Grade-I BS249	Min (%)	56.00	-	-	-	Balance	2.00	-	-
	Max (%)	59.00	-	0.35	-		3.50	-	0.70
IS:319 Grade-II	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	OI
	Min (%)	60.00	-	-	-	Balance	2.50	-	-
	Max (%)	63.00	-	0.35	-		3.70	-	0.50
C36000	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	OI
	Min (%)	60.00	-	-	-	Balance	2.50	-	-
	Max (%)	63.00	-	0.35	-		3.00	-	0.50
CZ121	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	OI
	Min (%)	56.50	-	-	-	Balance	2.50	-	-
	Max (%)	58.50	-	0.30	-		3.50	-	0.70
CW614N	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	OI
	Min (%)	57.00	-	-	-	Balance	2.50	-	-
	Max (%)	59.00	0.05	0.30	0.30		3.50	0.30	0.20
C3604	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn+Fe	Tin + Iron
	Min (%)	57.00	-	-	-	Balance	1.8	-	-
	Max (%)	61.00	-	0.50	-		3.70	1.20	-



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CuZn39Pb3	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	OI
	Min (%)	57.00	-	-	-	Balance	2.50	-	-
	Max (%)	59.00	0.05	0.30	0.30		3.50	0.30	0.20
C3601	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	TIN + IRON
	Min (%)	59.00	-	-	-	Balance	1.80	-	-
	Max (%)	63.00	-	0.30	-		3.70	-	0.50
C3602	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	TIN + IRON
	Min (%)	59.00	-	-	-	Balance	1.80	-	-
	Max (%)	63.00	-	0.30	-		3.70	-	1.20
C3603	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	TIN + IRON
	Min (%)	57.00	-	-	-	Balance	1.80	-	-
	Max (%)	61.00	-	0.35	-		3.70	-	0.60



Forging Brass

Material Grade		Forging Brass - Chemical Composition								
IS:6912 FLB	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	OI
	Min (%)	56.50	-	-	-	Balance	0.60	-	-	-
	Max (%)	60.00	-	0.30	-		2.00	-	-	0.75
CW617N	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	OI
	Min (%)	57.00	-	-	-	Balance	1.60	-	-	-
	Max (%)	59.00	0.05	0.30	0.30		2.50	-	0.30	0.20
CuZn40Pb2	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	OI
	Min (%)	57.00	-	-	-	Balance	1.60	-	-	-
	Max (%)	59.00	0.05	0.30	0.30		2.50	-	0.30	0.20
BS-218	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	OI
	Min (%)	57.00	-	-	-	Balance	0.60	-	-	-
	Max (%)	59.00	-	0.30	-		2.50	-	-	0.70
CZ122	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	OI
	Min (%)	56.50	-	-	-	Balance	1.50	-	-	-
	Max (%)	58.50	-	0.30	-		2.50	-	-	0.70
C-37700	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	OI
	Min (%)	58.00	-	-	-	Balance	1.50	-	-	-
	Max (%)	61.00	-	0.30	-		2.50	-	-	0.50

**Naval Brass**

Material Grade		Forging Brass - Chemical Composition								
CuZn38Pb2	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	Ol
	Min (%)	60.00	-	-	-	Balance	1.60	-	-	-
	Max (%)	61.00	0.05	0.20	0.30		2.50	-	0.20	0.20
IS:8737	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Mn	Sn	Ol
	Min (%)	56.50	-	-	-	Balance	1.00	0.5	-	-
	Max (%)	60.00	-	0.30	-		2.00	-	-	0.45
Material Grade		Naval Brass - Chemical Composition								
C-46400	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	As	Ol
	Min (%)	59.00	-	-	-	Balance	-	0.5	-	-
	Max (%)	62.00	-	0.10	-		0.20	1.00	-	0.50
C-46500	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	As	Ol
	Min (%)	59.00	-	-	-	Balance	-	0.50	0.02	-
	Max (%)	62.00	-	0.10	-		0.20	1.00	0.10	0.50
CZ112	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	As	Ol
	Min (%)	61.00	-	-	-	Balance	-	1.00	-	-
	Max (%)	63.50	-	-	-		-	1.40	-	0.70
IS:219 Gr-II	ELEMENT	Cu	Al	Fe	Ni	Zn	Pb	Sn	As	Ol
	Min (%)	59.00	-	-	-	Balance	0.50	0.50	-	-
	Max (%)	62.00	-	0.10	-		1.00	1.00	-	0.20

**High Tensile Brass**

Material Grade		High Tensile Brass - Chemical Composition									
CZ114/ IS:320HT-I	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	OI
	Min (%)	56.50	-	-	-	0.50	Balance	0.50	0.20	-	-
	Max (%)	58.50	0.2	1.00	-	2.00		1.50	0.80	-	0.50
IS:320HT-II	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	OI
	Min (%)	56.00	0.3	0.20	-	0.20	Balance	0.50	0.20	-	-
	Max (%)	61.00	2.0	1.50	-	2.00		1.50	0.80	-	0.50
CZ 115	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	OI
	Min (%)	56.50	-	0.30	-	0.50	Balance	0.50	0.20	-	-
	Max (%)	58.50	0.10	1.00	-	2.00		1.50	0.80	-	0.50
Material Grade		Silicon Red Brass - Chemical Composition									
CW724R	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	P	Si	OI
	Min (%)	75.00	-	-	-	-	Balance	-	0.02	2.70	-
	Max (%)	77.00	0.05	0.30	0.20	0.05		0.10	0.10	3.50	0.2
CW713R	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Ot
	Min (%)	57.00	1.3	-	-	1.5	Balance	0.2	-	0.3	-
	Max (%)	59.00	2.3	1.0	1.0	3.0		0.8	0.4	1.3	0.3
C69300 ECO Brass	ELEMENT	Cu	P	Fe	Ni	Mn	Zn	Pb	Sn	Si	Ot
	Min (%)	73.00	0.04	-	-	-	Balance	-	-	2.7	-
	Max (%)	77.00	0.15	0.10	0.1	0.10		0.10	0.20	3.4	0.50



SHREE BHAVANI
EXTRUSION

Lead Free Brass

Material Grade		Lead Free Brass - Chemical Composition									
CuZn37	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	As	Ol
	Min (%)	62.00	-	-	-	-	Balance	-	-	-	-
	Max (%)	65.00	-	0.10	-	-		0.30	-	-	0.60
CuZn40	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	As	Ol
	Min (%)	59.00	-	-	-	-	Balance	-	-	-	-
	Max (%)	62.00	-	0.10	-	-		0.75	-	-	0.30
CuZn33	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Ol
	Min (%)	64.00	-	-	-	-	Balance	-	-	-	-
	Max (%)	68.50	-	0.05	-	-		0.09	-	-	-
CuZn30	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Ol
	Min (%)	68.500	-	-	-	-	Balance	-	-	-	-
	Max (%)	71.500	-	0.050	-	-		0.050	-	-	0.300
CuZn20	ELEMENT	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Ot
	Min (%)	79.00	-	-	-	-	Balance	-	-	-	-
	Max (%)	81.00	-	0.05	-	-		0.10	-	-	0.30