

Special Alloy

		Composition (% maximum except as indicated)													Sand Cast Mechanical Properties				Pour Temperature		ASTM	
Copper Alloy Number	Ingot Number	Cu	Sn	Pb	Zn	Fe	Sb	Ni	Si	Al	Mn	P	S	Co	Total Named Elements	Tensile ksi	Yield ksi	Elongation %	Brinell 500 kg Load	Light Castings	Heavy Castings	
C99300	Ingramet	balance	0.05	0.02		0.40-1.0		13.5-16.5	0.02	10.7-11.5				1.0-2.0	99.7	check CDA for typical props				2300-2350	2225-2325	
C99400		balance		0.09	0.50-5.0	1.0-3.0		1.0-3.5	0.50-2.0	0.50-2.0	0.50				99.7	60	30	20				B763
C99500		balance		0.09	0.50-2.0	3.0-5.0		3.5-5.50	0.50-2.0	0.50-2.0	0.50				99.7	70	40	12		2300-2350	2225-2325	B763

XX Glass Caster Alloy

		Typical Composition (%)													Total Named Elements
Copper Alloy Number	Ingot Number	Cu	Sn	Pb	Zn	Fe	Sb	Ni	Si	Al	Mn	P	S	Co	Total Named Elements
XX Metal*		66			8.5	0.5		14.5		9.5	0.1				

* Chemical Specifications upon request

Melt Treatment Degasifiers

		Composition (% maximum except as indicated)												
	Cu	Sn	Pb	Zn	Fe	Sb	Ni	Si	Al	Mn	P	S	Mg	Ti
CuAl Degasifier	Rem	-	0.05	0.2	2	-	-	0.1	11.5-13.5	6.0-7.0	-	-	4.0-5.0	0.50-0.70
CuNi Degasifier	Rem	-	0.05	0.2	-	-	-	3.0-4.0	0.01	2.5-3.5	-	-	3.0-5.0	-