DESCRIPTION

Manganese is possibly the most flexible element that can be added to copper alloys. Small additions of manganese are used to deoxidize the alloy and enhance its mechanical strength and castability. Manganese provides a favourable combination and balance of properties like ductility, formability, strain hardening, and strength level parameters.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	56.00	59.00
Pb	THE SHEET	3.00
Mn	0.50	1.50
Total Others	Market Branch -	0.70
Zn	Rema	ainder

MECHANICAL PROPERTIES ACCORDING TO BS2872 (AS PER TEMPER M)

Range (mm)	From	То	UTS Min (Mpa)	PS Min (Mpa)	Elo Min (%)	Hardness Min	Hardness Max
	1.5	18	380		20	WHIE A	-
Round (Dia)	18	40	350	- _{ME} 189	25	dyn -	c - ETA
as life.	40	75	350	412	25	.6	JE Par - JANE
OPHING. IN	3	18	380	62	20	- 18E-17E	(p) 6(p)
Round (Dia)	18	40	350	5	25	HIPING - Diging	c ₅
THE HEALT OF	40	70	350	E WELL	25		.5 - META
Square (A/F)	3	"8	380	Chippy -	20	.5M	de de la companya della companya della companya de la companya della companya del
Square (A)1)	18	40	350	_	25	E HELL - THINK	620.
ATRIP OF	40	50	350	ARICE.	25	- da.	9
ETHE SHIPE SHIPE	3	18	380	SHE IN	20	- 5	
Rectangle (Thickness)	18	40	350	-	25	THE - SHE	- Jihan - Par
	40	50	350	-	25	E. Olivinia	

PHYSICAL PROPERTIES

Physical Properties	English		
Density	0.303 lb/in3		
CTE, linear	14.4 μin/in-°F		
Specific Heat Capacity	0.0908 BTU/lb-°F		
Thermal Conductivity	784 BTU-in/hr-ft ² -°F		
Melting Point	1620 – 1650 °F		
Solidus	1620 °F		
Liquidus	1650°F		

FABRICATION PROPERTIES

Machinability	80.00%		
(CuZn39Pb3 = 100 %)	Poor		
Capacity for Being Cold Worked	us sufficient		
Capacity for Being Hot Worked	Equivalent Alloy		