DESCRIPTION

CuZn33, is combining excellent cold forming properties with good mechanical strength. CuZn33 has good hot forming properties and excellent soldering and brazing properties. Due to the Outstanding deep drawing properties CuZn33 are called "deep-draw" brass.

CHEMICAL COMPOSITION

The Call Hilling	Elements			Min (%	6) (A)			Max (%)	
4	Cu	IS US NET	ZAJHADI.	66.00)	15 c. 16	Elber Hille	68.00	
ELP	Pb	EBIHA	40	TALS	, JENE	, and the same	4hr	0.05	, als . e.l
, HAIE M.	Fe		nET AL	, ans mr	Parilla.			0.05	MET. CHILINE
Blan.	Sn _S	WE WILL	·HANSAN	errilli	C.	.EIAL	عالما كالماء	0.10	
11/5	Ni	CHUNE.	Bry		all! Al.	HANG M	Pre President de la constante	0.30	c stip
NE ME	Al	62.		EMETAL -	JHAN'S	Phy.	.(5)	0.02	I HANS III
P.B.H.H.	Total Other	S ALS	" REINE!	ORIHAM -	64.	5 N 5	E METAL	0.10	P.P.J.
۵.	Zn	TOTAL BY	Hr.	_	CIRLS	Remainde	er _{nithm}	64.	

MECHANICAL PROPERTIES (AS PER TEMPER R350)

	Range (mm)	From	To	UTS Min (Mpa)	UTS Max (Mpa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
No.	Round (Dia)	1.5	75	350	430	170	23	5 - call	- THUM
	Hex (A/F)	3	70	350	430	170	23	2HPB	52
	Square (A/F)	3	60	350	430	170	23	69.	- 5

PHYSICAL PROPERTIES

Melting Point - Solidus°F Density lb/cu in. at 68°F	1710 1660 0.306
Density lb/cu in. at 68°F	
ME, HALL SA.	0.306
N 7111.	
Specific Gravity	8.47
Electrical Conductivity % IACS at 68°F	27
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210-6 per °F (68 - 572°F)	11.3
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tension ksi	15000
Modulus of Rigidity ksi	5600

FABRICATION PROPERTIES

Technique	Suitability			
Soldering	Excellent			
Brazing	Excellent			
Oxyacetylene Welding	Good			
Gas Shielded Arc Welding	Fair			
Coated Metal Arc Welding	Not Recommended			
Spot Weld	Good			
Seam Weld	Not Recommended			
Butt Weld	Good			
Capacity for Being Cold Worked	Excellent			
Capacity for Being Hot Formed	Poor			
Machinability Rating	30			
Q' (3)	12 411			

TYPICAL USES

- > Architecture
- Automotive
- **Builders Hardware**
- **>** Consumer
- > Electrical
- > Fasteners
- Industrial
- Ordnance
- > Plumbing