#### **DESCRIPTION**

CuZn30 as well as CuZn28 is combining excellent cold forming properties with good mechanical strength. CuZn30 has good hot forming properties and excellent soldering and brazing properties. Due to the outstanding deep drawing properties CuZn30 and the other two mentioned alloys are called "deep-draw" or "cartridge" brass.

### **CHEMICAL COMPOSITION**

Elements			Min (%)				Max (%)			
40	Cu	S WENT!	ZAJHANI.	69.00	6	S SM	THE THENES	71.00	2,	
E INC	Pb	BUHL	40	TALS	ME ME!	OF HUM.		0.05	, NIS	EME
HANE	Fe		nEI ME	ans int				0.05		
Ellen,	Sn <sub>S</sub>	METAL	.HANS M	blb]jjjj	C.	of this	· CHE ME	0.10		
10/5	Ni	CHINE .	Bry	<u></u>	MET ALL	HUIR III	Elb'ille.	0.30	<u>د</u>	NEI ME
US ME	Al	64.	AND S	.c. WEIDE -	CHAN'S	By.	.5	0.02	A. C.	IHANS MI
Parith.	Total Others	IALS	" NE ME.	anihama -	\$12.	5	E WEITE	0.10	9	Br.
G	Zn	THE MIL ST	H.	_	(TRIS	Remainder	a filh film	62.		a No

# **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
Round (Dia)	1.5	75	350	430	-	21	5 - SME	- JHEIM
Hex (A/F)	3	70	350	430	- 🔊	21	244	52
Square (A/F)	3	60	350	430	-18 ME	21	69.	- 5

#### PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1750
Melting Point - Solidus°F	1680
Density Ib/cu in. at 68°F	0.308
Specific Gravity	8.53
Electrical Conductivity % IACS at 68°F	28
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F	70
Coefficient of Thermal Expansion 68-57210"6 per °F (68 - 572°F)	11.1
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tension ksi	16000
Modulus of Rigidity ksi	6000

## **FABRICATION PROPERTIES**

Excellent
4 10
Excellent
Good
Good
Not Recommended
Fair Hall
Not Recommended
Good
Excellent
Fair
30

#### TYPICAL USES

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