# C26000

## LEAD FREE BRASS

### 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.

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### **CHEMICAL COMPOSITION**

Elements	Min (%)	Max (%)		
Cu	68.50	71.50		
Pb	155 5.15 <sup>10</sup>	0.07		
Fe	aster astrone - Pr	0.05		
Total Others	and - chis	0.30		
Zn	Rer	nainder		

### MECHANICAL PROPERTIES ACCORDING TO ASTM B927 (AS PER TEMPER H02)

Range (Inch)	From	То	UTS Min (MPa)	PS Min (MPa)	Elongation Min (%)	Hardness Min	Hardness Max
April .	1.5	12.00	345.00	170.00	10.00	S.S.	alle -
Round (Dia)	12.00	25.00	310.00	115.00	20.00	ability -	-
Sector and	25.00	50.00	275.00	105.00	20.00	-	11 <sup>2</sup> - 6 <sup>10</sup>
	3.00	12.00	345.00	170.00	10.00	18	Star - Star
Hex (A/F)	12.00	25.00	310.00	115.00	20.00	Str- all	- ~
	25.00	50.00	275.00	105.00	20.00	3 <sup>10</sup> -	- ,5
Square (A/F)	3.00	12.00	345.00	170.00	10.00	-	als - star
	12.00	25.00	310.00	115.00	20.00	12 - 13	C' Shar
43 <sup>10</sup>	25.00	50.00	275.00	105.00	20.00	6 Mile - A Million	<u> </u>



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### **PHYSICAL PROPERTIES**

Melting Point - Liquidus°F	1750
Melting Point - Solidus°F	1680
Densitylb/cu in. at 68°F	0.308
Specific Gravity	8.53
Electrical Conductivity% IACS at 68°F	28
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	70
Coefficient of Thermal Expansion 68-57210 <sup>-6</sup> per °F (68 – 572°F)	11.1
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	16000
Modulus of Rigidity ksi	6000
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### **FABRICATION PROPERTIES**

Technique	Suitability
Soldering	Excellent
Brazing	Excellent
Capacity for being hot worked	Good
Gas Shielded Arc Welding	Good
Coated Metal Arc Welding	Not Recommended
Spot Weld	Fair
Seam Weld	Not Recommended
Butt Weld	Good
Capacity for Being Cold Worked	Excellent
Capacity for Being Hot Formed	Fair
Machinability Rating	30

### **TYPICAL USES**

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



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