# 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.

#### **CHEMICAL COMPOSITION**

	ego. E	lements		, HANS IN	Min (%)		e di		Max (%)	
	S.	Cu	JHAND	6.800	68.50	MER	North Star	Burley	71.50	. L
ò	NE MET	Pb	62	ALS.	S ME M	JHANS	420		o.07	HANSTON
	Planter	Fe	ethis	NS MEL	apply -	62.	this	SWEIP	0.05	6300
	ू To	tal Others	ANS MIL	P.B.JHP.	-		ALS ME	- Althouse	0.30	a la
	METRIC	Zn	Balt	6	WE THIS	ANS MIL	Remainder		(INIS	NS ME
	12 C	2			6	110		. S		385

## **MECHANICAL PROPERTIES (AS PER TEMPER HO2)**

Range (mm)	From	То	UTS Min (MPa)	PS Min (MPa)	Elongation Min (%)	Hardness Min	Hardness Max
Bloger	1.5	12.00	345.00	170.00	10.00	- NS <sup>ME</sup>	Allthan -
Round (Dia)	12.00	25.00	310.00	115.00	20.00	allutter -	-
ALT MALE MARSH	25.00	50.00	275.00	105.00	20.00	-	and - and
AND RANK	3.00	12.00	345.00	170.00	10.00	AN STREET	SME - Althous
Hex (A/F)	12.00	25.00	310.00	115.00	20.00	JSME - All	- ~
e althur	25.00	50.00	275.00	105.00	20.00	JHP -	- , , , ,
METAL MAST	3.00	12.00	345.00	170.00	10.00	-	THE - SHE
Square (A/F)	12.00	25.00	310.00	115.00	20.00	1 - S	C
Bry	25.00	50.00	275.00	105.00	20.00	SME - Althorn	

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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 /ºF at 68ºF	0.09
Modulus of Elasticity in Tensionksi	16000
Modulus of Rigidity ksi	6000

## LEAD FREE BRASS

EDTIEC

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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