C23000

LEAD FREE BRASS

DESCRIPTION

C23000 brass is the most durable of all metals for commercial water pipe in the practical price range. Excellent for its resistance to dezincification and season cracking for which the high copper brasses are known. Moderate strength and good retention of spring properties. Specified for underground service lines since it offers greatest corrosion resistance to all types of potable waters. Popular as an outdoor metal and has found for itself a very important place in modern architecture. Also known as Nordic Brass.

CHEMICAL COMPOSITION

	Elements		BUTT	Min (%	5)	ME ME		Max (%)	
o ME	Cu	610-JL	5	84.00	INS ME	63)ka		86.00	is when
CHANK .	Pb	5	METAL	HANG TO -	P.R.J.C.	5	. HEI	0.05	P42141
64.	Fe	SMETH	CHAN'S	6ha.	5	ANT PARTY	HANST	0.05	5
LT MS	Total Others	HALL	62.	ANS-	SWEIN	- JHAME	634	0.20 🔊	METAL
JANS MIL	an Zn	-	et MS	MS ME	2 BUH POT	Remainder	ANS.	SMET	UHAN'S

MECHANICAL PROPERTIES (AS PER TEMPER HO2)

Range (mm)	From	То	UTS Min (Mpa)	UTS Max (Mpa)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	6.00	455.00	530.00	AND - S	Mr - WHAN	- 62.	- 33
Hex (A/F)	3.00	6.00	455.00	530.00	Mr althan	- ~~	-	S - CMET
Square (A/F)	3.00	6.00	455.00	530.00	-	-	S - SME	JHAN

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PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1880
Melting Point - Solidus°F	1810
Densitylb/cu in. at 68°F	0.316
Specific Gravity	8.75
Electrical Conductivity% IACS at 68°F	37
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	92
Coefficient of Thermal Expansion 68-57210- ⁶ per °F (68 – 572°F)	10.4
Specific Heat Capacity Btu/ lb /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	17000
Modulus of Rigidity ksi	6400

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	Good			
Machinability Rating	30			
2 22	C.M.			

TYPICAL USES

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

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