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

. 9	Elements			Min (%	6)	AS NEWS		Max (%)	
5 METAL	Cu	BUT	C ₁	84.00	JANS MIL	Ply Jan.		86.00	o MEME
- CTHURE	Pb	.5	, WEIGHT	IHUR -	BBJ	. 5	JETP.	0.05	Ph Jillian
64	Fe	SWELL	- CIHANIS		5	ANE INC.	IHUR	0.05	. 9
TIME T	otal Others	Althar	60	AlS-	NE METER	- CIHANIO	bigg.	0.20	MEIAL
HURE MILE	Zn	C.	E INE	We alt.	P.A.HAI	Remainder	TALS	NE META	C THUMPS

MECHANICAL PROPERTIES (AS PER TEMPER HO2)

Range (Inch)	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	7 PLS - 18	ME - DIHAM	- 17/2	-
Hex (A/F)	3.00	6.00	455.00	530.00	Mic - WHU	- 40	- ,	5 - CHE
Square (A/F)	3.00	6.00	455.00	530.00	- 10	- 6	S - SME	-HEIJE

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

Suitability				
Excellent				
Excellent				
Good				
Good				
Not Recommended				
Fair				
Not Recommended				
Good				
Excellent				
Good				
30				

TYPICAL USES

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