

C26200

LEAD FREE BRASS

DESCRIPTION

C26200 brass is a brass formulated for primary forming into wrought products. It can have the highest ductility and has a moderately high melting temperature relative to other wrought brasses.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	67.00	70.00
Pb	-	0.07
Fe	-	0.05
Total Others	-	0.03
Zn	Remainder	

MECHANICAL PROPERTIES (AS PER TEMPER HO2)

Range (Inch)	From	To	UTS Min (ksi)	PS Min (Ksi)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	0.059	2.953	70.00	52.00	20.00	-	-
Hex (A/F)	0.118	2.756	70.00	52.00	20.00	-	-
Square (A/F)	0.118	2.362	70.00	52.00	20.00	-	-

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PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1750
Melting Point - Solidus°F	1680
Density/lb/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 ⁻⁶ 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

FABRICATION PROPERTIES

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

TYPICAL USES

- › Architecture
- › Automotive
- › Builders Hardware
- › Electrical
- › Fasteners
- › Industrial
- › Ordnance
- › Plumbing