

Metal Alloys Corporation





MANGANESE BRONZE "SAE 430 A"

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS

UNS ISO JIS **DESIGNATION**C86200
CuZn26Al4Fe3Mn3

CAC303

Manganese bronze – copper casting alloy UNS C86200 consists primarily of of copper, zinc, aluminum and manganese bronze. Manganese existing in UNS C86200 provides an attractive chocolate brown color which is commonly used in architecture. The presence of lead in the alloy improves the longevity of the alloy.

Typical Uses:

BUILDERS: Hardware Brackets, Structural Parts **FASTENERS:** Screw Down Nuts **INDUSTRIAL:** Struts, Gears, Valve Stems, Bushings, Cams, Wear Rings for Pressing Dies for Wood Pulp Industry, High Strength Machine Parts, Hooks, Frames, Shafts, Marine Racing Propellers, Worm Gears, Pressing Dies for Wood Pulp **MARINE:** Rudders, Marine Castings, Boat Parts, Clamps

CHEMICAL COMPOSITION

	Zn	Cu	Fe	Mn	Ni	Pb	Sn
Min/Max	22-28	60-66	2-4	2.5-5	1.0max	0.2max	0.2 max
Nominals	25	63	3	3.7	-	-	-

PHYSICAL PROPERTIES

	Us Customary
Melting Point - Liquidus	1725 F
Melting Point - Solidus	1650 F
Density	0.288 Lb/in3 At 68 F
Specific Gravity	7.970
Electrical Resistivity	136.70 Ohms-cmil/ft @ 68 F
Electrical Conductivity	8 %iacs @ 68 F
Thermal Conductivity	20.50 Btu • Ft/(hr • Ft2 • °f)at 68f
Coefficient Of Thermal Expansion	120 • 10-6 Per Of (68-392 F)
Specific Heat Capacity	0.090 Btu/lb/°f At 68 F
Modulas Of Elasticity In Tension	15000 Ksi
Magnetic Permeability*	1.240

SIZES AVAILABLE:

ROUND RODS

8mm To 100 mm

10mm To 60mm

SQUARE

10mm To 60mm

10mm To 60mm

10mm Min Thickness and max Width 120mm

BILLETS

Up to 200 mm

INGOTS

As per Specification

Regd. Office & Plant

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