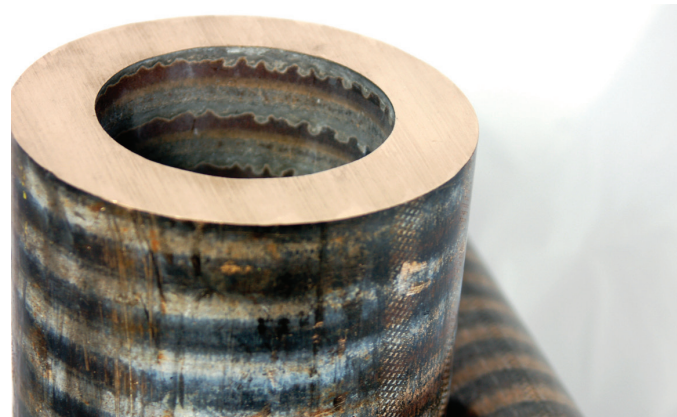


C83600 LEADED RED BRASS

AVAILABLE IN SOLID BAR, HOLLOW BAR, SQUARE BAR AND PLATE



TYPICAL USES

Plumbing

Valves, Flanges, Pipe Fittings, Plumbing Goods, Pump Castings, Water Pump Impellers and Housings

Other Industrial

Ornamental Fixtures, Small Gears

SIMILAR OR EQUIVALENT SPECS

Continuous

ASTM B-505, AMS 4855
SAE J461, J462, QQ-C-390

Centrifugal

AMS 4855, ASME SB271, ASTM
B271, QQ-C-390, MIL-C-15345,
SAE J461, J4622

Sand

AMS 4855, ASME SB62,
ASTM B62 B584, QQ-C-390,
MIL-C-22229,
SAE J461, J462

SIZES AVAILABLE

Solid Bar..... $\frac{3}{8}$ " - 16" diameter
Hollow Bar (Continuous Cast)..... $\frac{1}{2}$ " I.D. x 1" O.D. thru 14" I.D. x 16" O.D.
Hollow Bar (Centrifugal).....up to 30" O.D. (stock) / 100" O.D. plus, special order
Square Bar.....up to 10" square
Wear Plate..... $\frac{1}{4}$ " - 10" thick thru 16" widths



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THE LEADING USA MANUFACTURER & MASTER DISTRIBUTOR OF BRASS, BRONZE, COPPER ALLOYS & MACHINED PARTS

C83600 LEADED RED BRASS

Chemical Composition, Mechanical Properties, Physical Properties

CHEMICAL COMPOSITION

	Cu ⁽¹⁾	Pb	Sn	Zn	Fe	P	Ni	Al	S	Sb	Si
min	84.0	4.0	4.0	4.0	-	-	-	-	-	-	-
max	86.0	6.0	6.0	6.0	0.30	0.05	1.0	0.005	0.08	0.25	0.005

MECHANICAL PROPERTIES

Casting Process	Temper	Tensile (KSI) Min	Yield (KSI) Min	Elongation In Hd Min	Brinell (3000 Kg)
Centrifugal	M02	30	14	20	-
Continuous	M07	36	19	15	-
Sand	M01	30	14	20	60

PHYSICAL PROPERTIES

Melting Point - Liquidus °F.....	1850
Melting Point - Solidus °F.....	1570
Density lb/cu in @ 68 °F.....	0.318
Specific Gravity.....	8.83
Electrical Conductivity % IACS @ 68 °F.....	15
Thermal Conductivity Btu/sq ft/ft hr/°F @ 68 °F.....	41.6
Coefficient of Thermal Expansion 10 ⁻⁶ per °F (68-392 °F).....	10
Specific Heat Capacity Btu/lb/°F @ 68 °F.....	0.09
Modulus of Elasticity in Tension ksi.....	13500
Machinability Rating.....	84%

AVIVA Color Code



NAVY BLUE

The values listed on this document represent reasonable approximations suitable for general engineering use. Due to commercial variations in composition and to manufacturing limitations, they should not be used for specification purposes. See applicable A.S.T.M. Specification references.

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