NWB®

High Performance Bearing Technology

C35300 HIGH LEADED BRASS “62%”



C35300 material contains lower lead and less impurities than C36000 Free Machining Brass. This alloy has excellent thread rolling and knurling. In addition to outstanding free machining properties, C35300 is typically used in components where severe cold working is required.

Alternative Specifications

ASTM B-121, B-453
ISO Cu Zn37 Pb2
BS CZ131
EN CW606N
DIN 2.0371

Physical Properties

Melting Point - Liquidus	1670 F
Melting Point - Solidus	1630 F
Density	0.306 lb/in^3 at 68 F
Specific Gravity	8.47
Electrical Resistivity	39.9 ohms-cmil/ft at 68 F
Electrical Conductivity	26 %IACS at 68 F
Thermal Conductivity	67.0 Btu · ft/(hr · ft2·°F) at 68F
Coefficient of Thermal Expansion	11.3 ·10^{-6} per °F (68-572 F)
Modulus of Elasticity in Tension	15000 ksi
Modulus of Rigidity	5600 ksi
Machinability Rating	90%

Room Temp Tensile & Hardness Data

TEMPER	SECTION SIZE (INCHES)	TENSILE (KSI) MIN	YIELD (KSI) MIN	ELONGATION IN HD MIN	ROCKWELL HARDNESS (B)
O60 (Ann.)	Under 1/2”	46	16	20%	45 Max
	1/2“ - 1”	44	15	25%	45 Max
	1” and Over	40	15	30%	45 Max
H01 (1/4 H)	Under 1/2”	52	65	25%	50-75
	1/2” - 1”	50	62	20%	40-70
	1” and Over	42	62	15%	40-70
H02 (1/2 H)	Under 1/2”	57	80	25%	60-80
	1/2“ - 1”	55	70	25%	55-75
	1” and Over	50	62	20%	40-70

Typical Uses

Builders Hardware
Drawer Handles, Drawer Pulls, Hinges

Consumer
Clock Plates and Nuts, Clock and Watch Parts, Bicycle Spoke,Nipples, Key Blanks

Fasteners
Nuts, Screws, Rivets

Other Industrial
Instrument Backs, Automatic Screw Machine Parts, Valve, Stems, Pinions, Flare Fittings, Couplings, Adapters, Bearing, Cages, Channel Plate, Wheels, Gears, Ratchets

Plumbing
Plumbers Fittings, Pipe Fittings, Faucet Seats, Faucet Stems, Plumbers’ Brass Goods, Hose Nozzle Stems

Other
Engravers Plate, Injection Molding Inserts

Chemical Composition

	Cu[(1)]	Fe[(2)]	Pb	Zn
min/max	60.0-63.0	.15	1.5-25	Rem.
nominal	61.5	-	2.0	36.5

(1) Cu, 61.0% min. for rod.
(2) For flat products, the iron shall be .10% max.
NOTE: Cu + Sum of Named Elements, 99.5% min.

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