

DESCRIPTION

C35330 a dezincification-resistant machining brass, is particularly suitable for use in warm, acidic waters. This material passes the dezincification test according to ISO 6509. For the manufacture of hot-stamped parts C35330 with better hot-working properties is recommended. To achieve dezincification resistance a heat treatment may be necessary after hot working.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	59.50	64.00
Pb	1.50	3.50
Fe	-	-
AS	0.02	0.25
Total Others	-	0.50
Zn	Remainder	

MECHANICAL PROPERTIES ACCORDING TO ASTM B453 (AS PER TEMPER H02)

Range (Inch)	From	To	UTS Min (Ksi)	UTS Max (Ksi)	PS Min (Ksi)	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	0.059	0.500	57.00	80.00	25.00	7.00	60.00	80.00
	0.500	1.000	55.00	70.00	25.00	10.00	50.00	75.00
	1.000	2.953	50.00	62.00	20.00	15.00	40.00	70.00
Hex (A/F)	0.118	0.500	57.00	80.00	25.00	7.00	60.00	80.00
	0.500	1.000	55.00	70.00	25.00	10.00	50.00	75.00
	1.000	2.756	50.00	62.00	20.00	15.00	40.00	70.00
Square (A/F)	0.118	0.500	57.00	80.00	25.00	7.00	60.00	80.00
	0.500	1.000	55.00	70.00	25.00	10.00	50.00	75.00
	1.000	2.362	50.00	62.00	20.00	15.00	40.00	70.00



MECHANICAL PROPERTIES ACCORDING TO ASTM B453 (AS PER TEMPER H02)

Range (Inch)	From	To	UTS Min (MPa)	UTS Max (MPa)	PS Min (MPa)	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	1.5	12.00	395.00	555.00	170.00	7.00	60.00	80.00
	12.00	25.00	380.00	485.00	170.00	10.00	50.00	75.00
	25.00	75.00	345.00	425.00	140.00	15.00	40.00	70.00
Hex (A/F)	3.00	12.00	395.00	555.00	170.00	7.00	60.00	80.00
	12.00	25.00	380.00	485.00	170.00	10.00	50.00	75.00
	25.00	70.00	345.00	425.00	140.00	15.00	40.00	70.00
Square (A/F)	3.00	12.00	395.00	555.00	170.00	7.00	60.00	80.00
	12.00	25.00	380.00	485.00	170.00	10.00	50.00	75.00
	25.00	60.00	345.00	425.00	140.00	15.00	40.00	70.00

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1660
Melting Point - Solidus°F	1645
Density/lb/cu in. at 68°F	8.45
Specific Gravity	8.45
Electrical Conductivity% IACS at 68°F	26
Coefficient of Thermal Expansion 68-57210 ⁶ per °F (68 – 572°F)	12.4
Modulus of Elasticity in Tensionksi	15000

FABRICATION PROPERTIES

No Fabrication properties for this alloy.

TYPICAL USES

- > Plumbing

