C47940

NAVAL BRASS

DESCRIPTION

The high leaded naval brass is available in compliance with ASTM B21, AMS 4611 standards and is appreciated for high thermal and electrical conductivity. The material is highly ductile and easy to weld and is also appreciated for creeping resistance and low volatility under high vacuum.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	63.00	66.00
Pb	1.00	2.00
Sn	1.20	2.00
Fe	0.10	1.00
Total Others	-	0.40
Zn	Remainder	

MECHANICAL PROPERTIES ACCORDING TO ASTM B21 (AS PER TEMPER HO2)

Range (Inch)	From	To	UTS Min (ksi)	PS Min (ksi)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	0.059	0.500	58.00	30.00	18.00	-	-
	0.500	1.000	56.00	30.00	20.00	-	-
	1.000	2.000	54.00	25.00	22.00	-	-
	2.000	2.952	50.00	25.00	25.00	-	-
Hex (A/F)	0.118	0.500	58.00	30.00	18.00	-	-
	0.500	1.000	56.00	30.00	20.00	-	-
	1.000	2.000	54.00	25.00	22.00	-	-
	2.000	2.756	50.00	25.00	25.00	-	-
Square (A/F)	0.118	0.500	58.00	30.00	18.00	-	-
	0.500	1.000	56.00	30.00	20.00	-	-
	1.000	2.000	54.00	25.00	22.00	-	-
	2.000	2.362	50.00	25.00	25.00	-	-

3985, GIDC, Phase-III, Dared, Jamnagar - 361 004. (Gujarat) INDIA. +91 288 2573820 www.rajhans.com

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MECHANICAL PROPERTIES ACCORDING TO ASTM B21 (AS PER TEMPER HO2)

Range (Inch)	From	To	UTS Min (MPa)	PS Min (MPa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	12.00	400.00	210.00	18.00	-	-
	12.00	25.00	390.00	210.00	20.00	-	-
	25.00	50.00	375.00	175.00	22.00	-	-
	50.00	75.00	345.00	175.00	25.00	-	-
Hex (A/F)	3.00	12.00	400.00	210.00	18.00	-	-
	12.00	25.00	390.00	210.00	20.00	-	-
	25.00	50.00	375.00	175.00	22.00	-	-
	50.00	70.00	345.00	175.00	25.00	-	-
Square (A/F)	3.00	12.00	400.00	210.00	18.00	-	-
	12.00	25.00	390.00	210.00	20.00	-	-
	25.00	50.00	375.00	175.00	22.00	-	-
	50.00	60.00	345.00	175.00	25.00	-	-

PHYSICAL PROPERTIES

Densitylb/cu in. at 68 0F	8.2g/cm3

FABRICATION PROPERTIES

No Fabrication Properties for this alloy.

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