CW711R

NAVAL BRASS

DESCRIPTION

CW711R naval brass. Mostly used for machine hardware, screw machine products and valve stems, CW711R naval brass is great for hot forging and pressing and machining. With high ductility, naval brass has excellent electrical and thermal conductivity. CW711R naval brass has good creep resistance and high impact strength. CW711R is a type of Naval Brass with a copper and tin content lesser than that of CW712R. However, it does contain a certain amount of Lead percentage higher than CW712R. Apart from this difference in the chemical composition, it has almost the same properties as CW712R to withstand against corrosion resistance and excellent for hot forming applications.

ALS ME	Elemen	ts		S I	Min (%)	Here By		Max (%)	Int Hall
BUILD	Cu	ET MS	NS ME	-AllAS	59.50		THIS SHIE	61.50	6300
. 5	Pb	ANS MA	Strike.		1.30	LTMS MS	ME. Childham	2.20	No. 1
CMETAD	HANGE Fe	BUT	. 5	. The second sec	All - Mars	BUT BUTHIN		0.10	ANS ME
- CHARD	Sn	Sec. Sec.	METAL	HANS	0.50		5 METHER	1.00	BBJH
~~	Ni Ni	SEMET AND		63.	-	S CMIETP	HANS	0.30	<u></u> .9
-ETALS	Total Oth	ers		ANS.	- SMEIT	Althous	63.	0.20	CMETAL
No Pl	Zn		1 Miles	NEME	-A-HAM	Rema	inder 🔊	-15 MET	- ALHAND

CHEMICAL COMPOSITION

MECHANICAL PROPERTIES (AS PER TEMPER R410)

	Range (mm)	From	То	UTS Min (N/mm²)	PS Min (N/mm²)	Elongation Min (%)	Hardness Min	Hardness Max
	Round (Dia)	2.00	50.00	410.00	- MS	18.00		
	Hex (A/F)	3.00	50.00	410.00	15 ME	18.00	-	als - chill
	Square (A/F)	3.00	50.00	410.00	aputter -	18.00	THE - SM	-SHAR
522	Rectangle (Thickness)	3.00	50.00	410.00	-	18.00	MC - Althouse	69

RAJHANS METALS PRIVATE LIMITED

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PHYSICAL PROPERTIES

	Melting Point - Liquidus°F	1650
	Melting Point - Solidus°F	1630
ć	Densitylb/cu in. at 68°F	0.305
2	Specific Gravity	8.44
	Electrical Conductivity% IACS at 68°F	26
2	Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	67 ج
	Coefficient of Thermal Expansion 68-57210- ⁶ per °F (68 – 572°F)	11.8
	Specific Heat CapacityBtu/ lb /°F at 68°F	0.09
	Modulus of Elasticity in Tensionksi	15000
4	Modulus of Rigidityksi	5600

FABRICATION PROPERTIES

Technique	Suitability
Soldering	Excellent
Brazing	Good
Oxyacetylene Welding	Not Recommended
Gas Shielded Arc Welding	Not Recommended
Coated Metal Arc Welding	Not Recommended
Spot Weld	Not Recommended
Seam Weld	Not Recommended
Butt Weld	Fair 🔬
Capacity for Being Cold Worked	Poor
Capacity for Being Hot Formed	Good
Forgeability Rating	90
Machinability Rating	70 juli 10 juli 10

TYPICAL USES

- > Fasteners
- > Industrial
- > Marine

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