DESCRIPTION

CW714R naval brass. Mostly used for machine hardware, screw machine products and valve stems, CW714R naval brass is great for hot forging and pressing and machining. With high ductility, naval brass has excellent electrical and thermal conductivity. CW714R naval brass has good creep resistance and high impact strength.

CHEMICAL COMPOSITION

Ele	ements	WE INTO	.HMS lills	Min (%)		0-	Elby		Max (%)	THY.	
	Cu	JHR _{H2}	6 By	59.00	all! It	N	We like	FRITT	61.00	Co	
ILE MET	Pb	612	18	0.40	JHRIII S	Pign			5 1.00	ME IN	115
RAJHA	Sn	TALS.	NE MET	0.50	62,		ALS.	E ME	1.00	5 bilba	
۵.	Fe	THE WILL	B.J.H.	-	THE	18	E.	GR.JHAM	0.10		100
METAL HANE	Ni 🕬		۵.	WEINER -	AL PART	Ph/IHA			0.30	ALS USA	6
Tota	al Others	<u> </u>	METAL	HUNE - SIV	C		'n	MINIS	0.20	BUHA	
(A)	⁵ Zn	ME IN SHAP	E 6	P		Remai	nder	HAME	RIAJI		

MECHANICAL PROPERTIES (AS PER TEMPER R410)

Range (mm)	From	То	UTS Min (N/mm²)	PS Min (N/mm²)	Elongation Min (%)	Hardness Min (HV)	Hardness Max
Round (Dia)	2.00	50.00	410.00	250.00	18.00	125.00	ELIPIT - SH
Hex (A/F)	3.00 %	40.00	410.00	250.00	18.00	125.00	Physical Company
Square (A/F)	3.00	40.00	410.00	250.00	18.00	125.00	_
Rectangle (Thickness)	3.00	50.00	410.00	250.00	18.00	125.00	- d

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1650
Melting Point - Solidus°F	1630
Densitylb/cu in. at 68°F	0.305
Specific Gravity	8.44
Electrical Conductivity% IACS at 68°F	26
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	₅ 67
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
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 (6)

COMMON FABRICAT

- > Hot forging and Pressing
- Machining

- Fasteners
- Industrial