C4622

NAVAL BRASS

DESCRIPTION

C4622 Naval Brass is mostly used for machine hardware, screw machine products and valve stems. C4622 Naval Brass is great for hot forging, pressing and machining. With high ductility, C4622 Naval Brass has excellent electrical and thermal conductivity. C4622 Naval Brass has a good creep resistance and high impact strength.

CHEMICAL COMPOSITION

	Elements			Min (%)			S ME	Max (%)			
	THE	Cu	of all the second	69.	61.00	SM	The JHANS	Blog	64.00	S	
þ	IANS MIL	Pb		THIS	NIS ME	apillan	6		0.30	Shith	JH
	610-21	Sn	METALS	JANS MIL	0.70		CIN'S	MS NS	1.50	11HBM	140
	25	Fe	HANST	Sport	. 5	METAL	UNIS MIL	PAUH	0.20	<i>.</i>	
	SWETT	Zn	Bur	5	- METAL	HANST	Remainder	c	- -	METRIC	IN SHALL

MECHANICAL PROPERTIES (AS PER TEMPER M)

Range (Inch)	From	То	UTS Min (MPa)	PS Min	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
Round (Dia)	ຸ 1.5	75.00	365.00	-	20.00	- THIS MA	Bully -
Hex (A/F)	3.00	70.00	365.00	.s = "	20.00	69- <u>1</u>	-
Square (A/F)	3.00	60.00	365.00	El ^M - un ^M	20.00	-	and the second s
Rectangle (Thickness)	3.00	50.00	365.00	-68m	20.00	- HE PALS	HANS - PAN

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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	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

Technique Suitability Soldering Excellent Brazing Good Oxyacetylene Welding Not Recommended Gas Shielded Arc Welding Not Recommended Not Recommended Coated Metal Arc Welding 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 50

FABRICATION PROPERTIES

TYPICAL USES

- > Fasteners
- > Industrial
- > Marine

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