DESCRIPTION

IS 6921 FNB is commonly referred to as a Naval Brass and issued typically in a wide range of marine and subsea applications. This brass alloy offers superior strength, corrosion resistance and offers good property retention at cryogenic temperatures with excellent hot formability and very good corrosion resistance.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	61.00	64.00
Pb	This state at the	0.20
Sn	1.00	1.50
Fe	Harm E HETHER	0.10
Total Others	all the state of t	0.50
Zn	Rema	ainder

MECHANICAL PROPERTIES ACCORDING TO IS 6921 (AS PER TEMPER HB)

Range (Inch)	From	То	UTS Min (MPa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	340.00	S - S	15.00	423	76,
Hex (A/F)	3.00	65.00	340.00	- 411/10	15.00	6,	AL PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE P
Square (A/F)	3.00	60.00	340.00	- Elpa	15.00	of Ethina	JANES - PART
Rectangle (Thickness)	3.00	50.00	340.00	0	15.00	.upi ⁵	6 P. J.

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1650
Melting Point - Solidus°F	1630
Densitylb/cu in. at 68°F	0.304
Specific Gravity	8.41
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
	Melting Point - Solidus°F Densitylb/cu in. at 68°F Specific Gravity Electrical Conductivity% IACS at 68°F Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F) Specific Heat CapacityBtu/ lb /°F at 68°F Modulus of Elasticity in Tensionksi

FABRICATION PROPERTIES

Technique	Suitability			
Capacity for being Cold Worked	Fair			
Hot Worked	Excellent			
Machinability Rating	30%			
Forgeability Rating	90%			
Silver Alloy Brazing	Excellent			
Soft Soldering	Excellent			
Oxyacetylene Welding	Good			

TYPICAL USES

- > Fasteners
- > Industrial
- > Marine