DESCRIPTION

IS 6912 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		- CHINE	Min (%	6)	S SE	M	lax (%)	
- Th	Cu	o Filher	40	61.00	.e.1	C. I. B.	dipa	64.00	S
JUL III	Pb		E INS	ulf lift.	c E Jillian	100		0.20	il. cellil
blum	Sn 🖽	all the	-unic his	1.00		W. Palife	-016 ME	1.50	40
.33	Fe	HILD.	blay.	.5	all This	A THE TOWN		0.10	b.
	Total Others	69	205	The little	HHHE.	blay.	.5	0.50	
Eq. Hip.	Zn	TALS	THE I	D.H.B.	62.	Remainder	- Illi lin	Tilling.	689.

MECHANICAL PROPERTIES (AS PER TEMPER HB)

Range (mm)	From	То	UTS Min (MPa)	PS Min (Mpa)	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	340.00	35 - 3f	15.00	625.	76
Hex (A/F)	3.00	70.00	340.00	- Hillian	15.00	6	aff less
Square (A/F)	3.00	60.00	340.00	da	15.00	WE THAT	"High - blog
Rectangle (Thickness)	3.00	50.00	340.00	- 3	15.00	HBJE -	-

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
750	

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

- Fasteners
- Industrial