DESCRIPTION

IS 291 Gr I 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 and corrosion resistance and offers good property retention at cryogenic temperatures. With excellent hot formability and very good corrosion resistance.

CHEMICAL COMPOSITION

40	Elements		C HANGE	Min (%)	S ME	M	ax (%)	
ELP	Cus	RAJHAT	W.	61.00	15/11/	Elly Blank	Phr 6	64.00	. 25
· HAIF IN	Pb	-	a ELIAN	o ansult	RAJHA!		7	0.20	J. Chilly
Blan	Sn	WE ALS	HAVEN	e ^{BJH} 1.00	· · · · · · · · · · · · · · · · · · ·	a ETALS	WE MIL	1.50 _{ER} H	4.
5	Fe	HINE,	blun.	<u>,</u> 5	of the	-AME	EU714	0.10	Ź
JE MET	Total Others	dy.	, als	EMETAL-	HANE.	Plug	S	0.20	.HANS AN
RAJHA	Zn	TALS	JE ME!	CETHAM	62.	Remainder	E WEIGH	NHAM'S	Blog

MECHANICAL PROPERTIES (AS PER TEMPER HB)

Range (Inch)	From	То	UTS Min (MPa)	PS Min	Elongation Min (%)	Hardness Min (HRB)	Hardness Max (HRB)
THE WENT	1.5	12.5	390.00	, is - en	18.00	614.	-5
Round (Dia)	12.5	50.00	380.00	- THUM	18.00	- ,%	MET.
CAJHA" F.	50.00	> 75.00	345.00	<u>-</u> 6g.	18.00 🚕	WEIGHT	HAMP - BAS
ALS.	3.00	12.5	390.00	%	18.00	IHAND -	
Hex (A/F)	12.5	50.00	380.00	- MEIN	18.00	My -	.5 - 3
of the state of th	50.00	65.00	345.00	Hallis	18.00	্ট	MEINE - HAVE
Sally In	3.00	12.5	390.00	Sp	18.00	WELL THE THE	Me, - Gray
Square (A/F)	12.5	50.00	380.00	9	18.00	HUNE - BUT	-
TALS ISHE!	50.00	60.00	345.00	NET HE	18.00	_	S - WEIGH
Rectangle (Thickness)	3.00	12.5	390.00	IHRIII -	18.00	. S = 0.3	ETALL - MAISTA
Rectangle (Thekness)	12.5	50.00	380.00	blu.	18.00	WELVE - HAVE	6 P.JI.

PHYSICAL PROPERTIES

c. liv.	
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
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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