LEADED BRASS

DESCRIPTION

C2700, Engraving brass, are 60/40 alpha-beta brasses with different levels of lead added to give free machining properties. They are widely used for engraved plates and plaques, builders hardware, gears. They should not be used for acid etched work, for which the single phase alpha brasses should be used.

CHEMICAL COMPOSITION

	6 Bry	Elements	S WELP	HANST	Min (%)		S HE	and a start of the second	Max (%)	
	THIS	Cu	Althants	6 ftm	63.00	C MEIA	Aller	BUIL	67.00	ALL
3	MS ME	Pb	<i>K.</i>	(ALS	NS ME	AltAM	624		S 0.05	HIMPS
	BUTT	Fe	ETALS	MS ME	BUTTON -	40	(ALS	NS ME	0.05	62
	5	Zn	.uph Phi	597hh	C.	ETALS	Remainder	BUILIE	×.	ANS.
	17 PM	S	a ful		1 All	S	SHE			ALC: NO

MECHANICAL PROPERTIES (AS PER TEMPER BD)

From	То	UTS Min (Mpa)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
1.5	75.00	355.00	NS M - RANT	10.00	- This	and ME CAN
6.00	50.00	355.00	-	20.00	, JSME	aluthan -
3.00	70.00	355.00	- 6	10.00	apult	-
6.00	50.00	355.00	(1 ¹¹³ - 11 ¹⁵) ¹¹¹	20.00	-	AND -
3.00	60.00	355.00		10.00	- Alle	NE ME - Althous
6.00	50.00	355.00	-	20.00	Senter of	Stiller - Ye
3.00	50.00	355.00	- 1915	10.00	abilton -	-
6.00	50.00	355.00	- US MI	20.00	-	ALS - SMEL
	1.5 6.00 3.00 6.00 3.00 6.00 3.00 6.00 3.00 6.00	1.5 75.00 6.00 50.00 3.00 70.00 6.00 50.00 3.00 60.00 3.00 50.00 3.00 50.00 3.00 50.00	FromTo(Mpa)1.575.00355.006.0050.00355.003.0070.00355.006.0050.00355.003.0060.00355.006.0050.00355.003.0050.00355.00	From To (Mpa) PS Min 1.5 75.00 355.00 - 6.00 50.00 355.00 - 3.00 70.00 355.00 - 3.00 70.00 355.00 - 6.00 50.00 355.00 - 6.00 50.00 355.00 - 3.00 60.00 355.00 - 6.00 50.00 355.00 - 3.00 50.00 355.00 -	From To (Mpa) PS Min Min (%) 1.5 75.00 355.00 - 10.00 6.00 50.00 355.00 - 20.00 3.00 70.00 355.00 - 10.00 6.00 50.00 355.00 - 20.00 3.00 60.00 355.00 - 10.00 6.00 50.00 355.00 - 10.00 6.00 50.00 355.00 - 10.00 3.00 50.00 355.00 - 10.00 6.00 50.00 355.00 - 10.00	From To (Mpa) PS Min Min (%) Min 1.5 75.00 355.00 - 10.00 - 6.00 50.00 355.00 - 20.00 - 3.00 70.00 355.00 - 10.00 - 3.00 70.00 355.00 - 10.00 - 3.00 50.00 355.00 - 10.00 - 3.00 60.00 355.00 - 10.00 - 3.00 60.00 355.00 - 10.00 - 3.00 50.00 355.00 - 10.00 - 3.00 50.00 355.00 - 10.00 - 3.00 50.00 355.00 - 10.00 -

RAJHANS METALS PRIVATE LIMITED

LEADED BRASS

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1710
Melting Point - Solidus°F	1660
Densitylb/cu in. at 68°F	0.306
Specific Gravity	8.47
Electrical Conductivity% IACS at 68°F	27
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-57210- ⁶ per °F (68 – 572°F)	11.3
Specific Heat CapacityBtu/ lb /ºF at 68ºF	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600

FABRICATION PROPERTIES Technique Suitability Soldering Excellent Excellent Brazing Oxyacetylene Welding Good Gas Shielded Arc Welding Fair Coated Metal Arc Welding Not Recommended Spot Weld Good Seam Weld Not Recommended Butt Weld Good Capacity for Being Cold Worked Excellent Capacity for Being Hot Formed Poor Machinability Rating 30

TYPICAL USES

> Industrial

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CHEMICAL COMPOSITION

14.	162.				1 Dec	N			1	0.5
		Elements	S MILE		Min (%)		e di		Max (%)	
	ALS.	Cu	JHAMS	69.3	63.00	META	No. AND NO.	BUILT	67.00	and the second sec
Ş	WE MEL	Pb	62.	A Mars	SMER	JHAMS	4 Bri		S 0.05	HW Sh.
	Phillip	Fe	et ALS	NE ME	application -	62.	ALS.	SMEP	0.05	6300
	6	Zn	14NS MIL	6-10-14 hrs		STALS	Remainder	- Althouse	62	ALS.
	A PARTY	3	- Cle		S	all and a second	1415	<u> </u>		

MECHANICAL PROPERTIES (AS PER TEMPER BD)

Range (mm)	From	То	UTS Min (Mpa)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Round (Dia)	1.5	75.00	355.00	ISMI - ANH	10.00	- 115	SMP SHA
Round (Dia)	6.00	50.00	355.00	-	20.00	S -SME	Pr
	3.00	70.00	355.00	- ,	10.00	allter	
Hex (A/F)	6.00	50.00	355.00	AN - SM	20.00		19 - chi
Square (A/F)	3.00	60.00	355.00	- Alth	10.00	- 5	SMEL - SHAME
Physical (A/F)	6.00	50.00	355.00	-	20.00	AND .	21/2 - 62.
Rectangle (Thickness)	3.00	50.00	355.00	- 15	10.00	JHAN - P	- 5
Rectangle (Thickness)	6.00	50.00	355.00	- BME	20.00	62.	NS - METR
als Mr. all Mr.		2	S ME	HUDE	60	5	allel under

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Industrial

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