### **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**

	Rikali	Elements 5		HANSIM	Min (%)		c C	ALS LINE	Max (%)	4
	al <sup>S</sup>	Cu	CHUNE	Blag	63.00	MET	AL WANTS IN	FRJIM	67.00	
S	NE ME	Pb	62.	(A)5	IS NIETH	CIHANIS	Fly		o.05	IHANS M
	RAJHA	Fe	ETALS	" ME ME	GRIHATA -	62.	(ALS	IS META	0.05	Piles
	G	Zn	INSME	PIVIHI.		ETALS	Remainder	GR. HAR	61.	ALS.

# **MECHANICAL PROPERTIES (AS PER TEMPER BD)**

Range (Inch)	From	To	UTS Min (Mpa)	PS Min	Elongation Min (%)	Hardness Min	Hardness Max
Daylod (Dia) Halling	1.5	75.00	355.00	EME - OFTHE	10.00	- (1)5	ENE. OH
Round (Dia)	6.00	50.00	355.00	-	20.00	S -SNE	OTHUM - HIL
Lloy (A/F)	3.00	70.00	355.00	- ,	10.00	C.Hall	-
Hex (A/F)	6.00	50.00	355.00	TRIS - USAM	20.00	-	115 - 61
Square (A/F)	3.00	60.00	355.00	- Allih	10.00	- 115	ENE - THUNG
Square (A/F)	6.00	50.00	355.00	-	20.00	SWE!	Hillian - Ett.
Rectangle (Thickness)	3.00	50.00	355.00	- (1)5	10.00	VIHUL - BO	
Rectaligle (TillCkiless)	6.00	50.00	355.00	- IE NIE	20.00	-	us - chill

# 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 /°F at 68°F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600

### **FABRICATION PROPERTIES**

	The state of the s	10 h
. 5	Technique	Suitability
	Soldering	Excellent
	Brazing	Excellent
3	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

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	H <sub>P</sub> <sub>2</sub>	Elements 5			Min (%)		c E		Max (%)	
	115	Cu	CHURS	6 by	63.00	MET	ALS WANTS IN	REIT	67.00	
Ċ	NE ME	Pb	61.	ALS.	E META	CHANG	4g		<sub>5</sub> 0.05	HAME
	PIVIH IN	Fe	FIALS	" ME ME	ahilihin -	62.	ALS	SMELL	0.05	Piles
	G	Zn	INSM	bl Jilly		ETALS	Remainder	CAHAR	St.	(ALS

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Round (Dia)	1.5	75.00	355.00	Ship - OFTH	10.00	- (1)5	SHE WHA
Round (Dia)	6.00	50.00	355.00	-	20.00	S -SME	CIHHIII - BI
Hex (A/F)	3.00	70.00	355.00	- ,	10.00	a A. HAII	-
nex (A/F)	6.00	50.00	355.00	THIS - WENT	20.00	_	115 - chi
Square (A/F)	3.00	60.00	355.00	- Alth	10.00	- 115	SMELL - SHAME
oquale (A/I )	6.00	50.00	355.00	_	20.00	ie Wei	Hilly - Hr.
Rectangle (Thickness)	3.00	50.00	355.00	- 415	10.00	eller -	- 5
Rectangle (Thickness)	6.00	50.00	355.00	- IEME	20.00	-	NE - CHELL

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