C26000 ASTM B36

142)

DATA

The "work-horse" of all copper alloys, Cartridge Brass as it is often termed can be readily formed into thousandes of different parts and has the strength to perform many usefull functions. The unique properties of C260 have allowed this alloy to find application in everything from bullet cases and automotive terminals to door trim and even jewlery. With a warm yellow color and ability to accomidate severe forming/drawing this alloy is one of the most versitle commercial metals.

Chemical Composition				■ Y.S. (Ksi) Macs				80 - 70	
								- 60	
Copper ¹ Zinc		68.5-71.5 Barrieda	60					50	
Lead		Remainder 0.07% Max	S 50				-	40	
Iron		0.07 % Max	Υ.S.			17		- 30	
¹ Copper plus named elements, 99.7%		0.0070 Wax	40			and the second		- 20	
- oppor pro namod stomos			30				- 1 - 1	- 10	
			20					Card Sec.	
			20	C210	C220 C230	C240	C260	0 c268	
					parison of Yield Stri nance of select Har		Electrical Conc	luctivity	
	Real Providence	Ph	vsical F	Properties	AND STREET	Destroit 1			
	and the second second second second	Engl	ish Units	;		Aetric Un	its	AND 10460 (101) 2548	
Density		0.308 lb/in ³ @ 68°F			8	8.53 g/cm ³			
Thermal Conductivity		70 BTU-ft/ft ² -hr-°F				121 W/mK			
Electrical Resistivity		37.0 ohm circ mils/ft				6.16 microhm-cm			
Electrical Conductivity (annealed)		28 % IA C S*				0.162 megamho/cm			
Modulus of Elasticity		16,000,000 psi				112 kN/mm ²			
Coeff. Of Thermal Expa	ansion		F						
68-572°F (20-300°C) International Annealed Copper Standard		11.1 PPM/°F			1	19.08 PPM/°C			
		Mech	anica I	Propertie	s				
Temper ¹	Tensile Strength		Yield Strength		and open second added	% Elongation ²		Typical 90° Bend Formability	
					% Elong				
	ksi	N/mm ²	ksi	N/mm				GW/BW ³	
Annealed (Soft) ⁴	45-61	310-420	21	145	53		-	-	
1/4 Hard	49-59	340-405	33	230	46		-	0.3	
1/2 Hard	57-67	395-460	51	350	30		0.5	0.5	
3/4 Hard	64-74	440-510	62	425	16	. 1	1.0	1.3	
Hard	71-81	49 0- 560	72	495	10		1.3	1.8	
Extra Hard	83-92	570-635	83	570	3		1.8	3.0	
Spring	91-100	625-690	86	595	1 m	in	3.0	5.0	
Extra Spring	95-104	655-755	89	615	1 m	in			

Mechanical properties subject to change. All roled- tempers are accepted or rejected based on Tensile Strength.

3DATA FOR REFERENCE ONLY, R/T = Bend Radius/Material Thickness <0.016" (0.4mm) thick, 11/16 (17.5mm) wide ⁴ Annealed temper are manufactured to a grain size only, consult mill for additional info.

^{2Nomi}nal Values h 2' (51mm)