

C268 (CuZn34)

Composition

Cu* (%)	Fe (%)	Pb (%)	Zn (%)
64.0-68.5	0.05 max	0.15 max	rem

*) Cu + sum of named elements min 99.7 %

Physical Properties

Temper	Melting point (liquidus)	Density	Specific heat cap. at 68 F (20 °C)	Electrical cond. Nom in black	Thermal cond. at 68 F (20 °C)	Mod. of elasticity	Coef. of therm.exp at 68 F (20 °C)
	°C	g/cm ³	kJ/(kg°K)		W/(m°K)	GPa	10 ⁻⁶ /°C
All	1710	0.306	0.09	27	67	15	11.3
	932	8.47	0.38	27	116	103	20.3

Mechanical Properties

At max 0.040" (1 mm)

Temper	R _{p0.2} Yield strength ksi	R _m Tensile strength ksi	A ₅₀ Elongation 2" %	Hardness for reference HR30T HV	Min bend ratio 90°		Min bend ratio 180°	
					GW	BW	GW	BW
Soft	23 159	44-61 304-421	52	70	0.0	0.0	0.0	0.0
H02 (1/2H)	44 304	55-65 379-448	31	115	0.0	0.0	0.0	0.0
H04 (H)	57 393	68-78 469-538	12	155	0.0	1.5	0.0	1.5
H06 (EH)	67 462	79-89 545-614	4	170	0.5	2.5	0.5	2.5
H08 (SH)	71 490	86-95 593-655	3	185				
H10 (ES)	73 504	90-99 621-683	1	210				

Other tempers are available upon request.

Data for information only and not for use as purchase specification.

Yield strength, Elongation and Hardness are typical values for each temper.

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Alloy attributes C268 alloy with a nominal composition of 66 % copper and 34 % zinc is an alternative to C260 with higher Zn content.

High ductility
Favorable cost
Good spring properties

Typical applications Electric brackets, clips & contacts; radiator cores & tanks; hollowware base metal; lamps; bowls; trays; flashlight socket shells; grommets; eyelets; fasteners; bead chain; hardware items as knobs, roses, hinges; stencils; plumbing strainers & accessories; springs; cartridge & shell cases, hose couplings, decorative pots and planters.

Design limitations Cold worked 268 alloy shapes may be susceptible to stress - corrosion cracking in certain media as ammonia or its compounds, mercury or its compounds. A stress-relief anneal can be utilized to minimize this susceptibility. Exposure to acidic media may result in dezincification

Applicable specifications ASTM B36