

C26000 (CuZn30) 18 08 US

Comparable standards: UNS C26000 • EN CW505L • JIS C2600
 Aurubis designations: C260 • PNA226 • SM1070

Description CuZn30 is a solid solution strengthened copper alloy (brass). Cold worked CuZn30 may be susceptible to stress - corrosion cracking in certain media as ammonia or its compounds and mercury or its compounds. A stress-relief anneal can be utilized to minimize this susceptibility. Exposure to acidic media may result in dezincification.

Composition

Cu*)	Fe	Pb	Zn
[%]	[%]	[%]	[%]
68.5 - 71.5	0.05 max	0.07 max	rem.

*) Cu + sum of named elements min 99.7 %

Physical properties

Melting point	Density	Specific heat cap. at 20°C	Electrical cond.	Thermal cond. at 20°C	Mod. of elasticity	Coef. of therm exp. at 20°C
[°F] [°C]	[lb/in³] [g/cm³]	[Btu/lb°F] [kJ/kgK]	[%IACS] [MS/m]	[Btu/ft h °F] [W/mK]	x1000 ksi [GPa]	[10 ⁻⁶ /°F] [10 ⁻⁶ /K]
1750 954	0.308 8.53	0.09 0.38	28 16	70 121	16 110	11.1 20

The specified conductivity applies to the soft condition only

Mechanical properties

	Tensile strength Rm	Yield strength Rp0.2 nominal	Elongation 2'' nominal	Hardness HV nominal	min bend ratio 90°		min. bend ratio 180°	
	[ksi] [MPa]	[ksi] [MPa]	[%]	[-]	GW	BW	GW	BW
Soft	45-61 310-421	21 145	53		0	0	0	0
H02	57-67 393-462	49 338	32	135	0	0	0	0
H04	71-81 490-559	67 462	13	195	0	1.5	0	1.5
H06	83-92 573-635	80 552	5	220	0.5	2.5	0.5	2.5
H08	91-100 628-690	87 600	3	220				
H10	95-104 655-717	90 621	2	220				

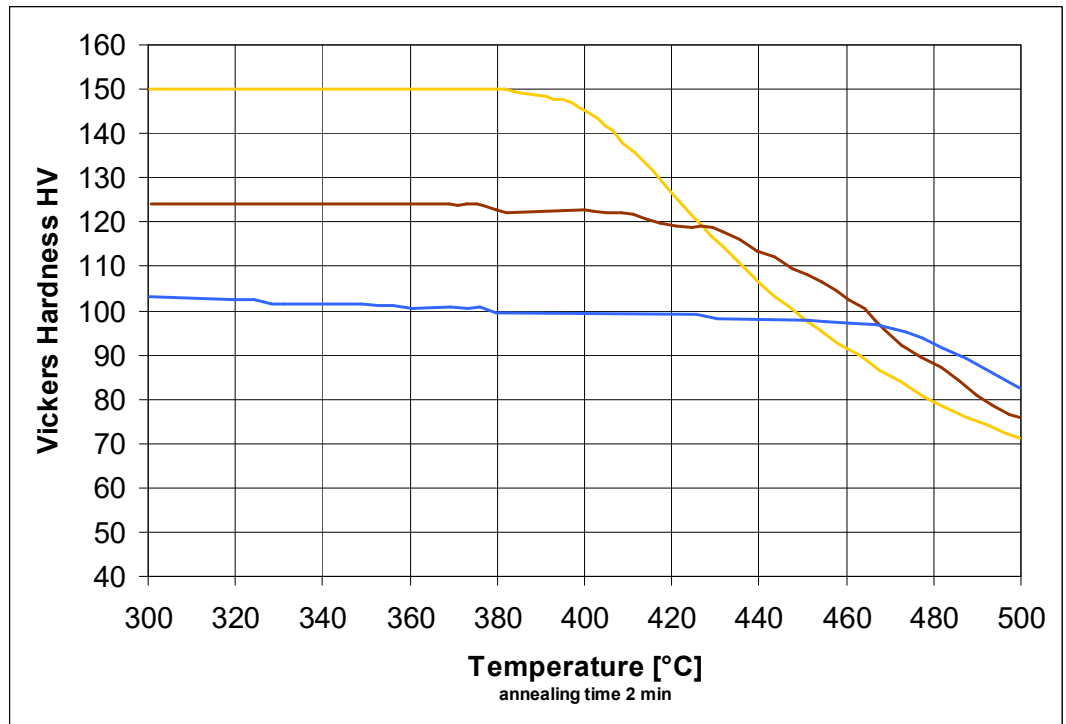
Other tempers are available upon request.
 GW bend axis transverse to rolling direction. BW bend axis parallel to rolling direction

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Fabrication properties

Soldering	excellent
Gas shielded arc welding	good
Spot Welding	fair
Butt Welding	good
Cold formability	excellent

Heat Resistance and Softening Characteristics



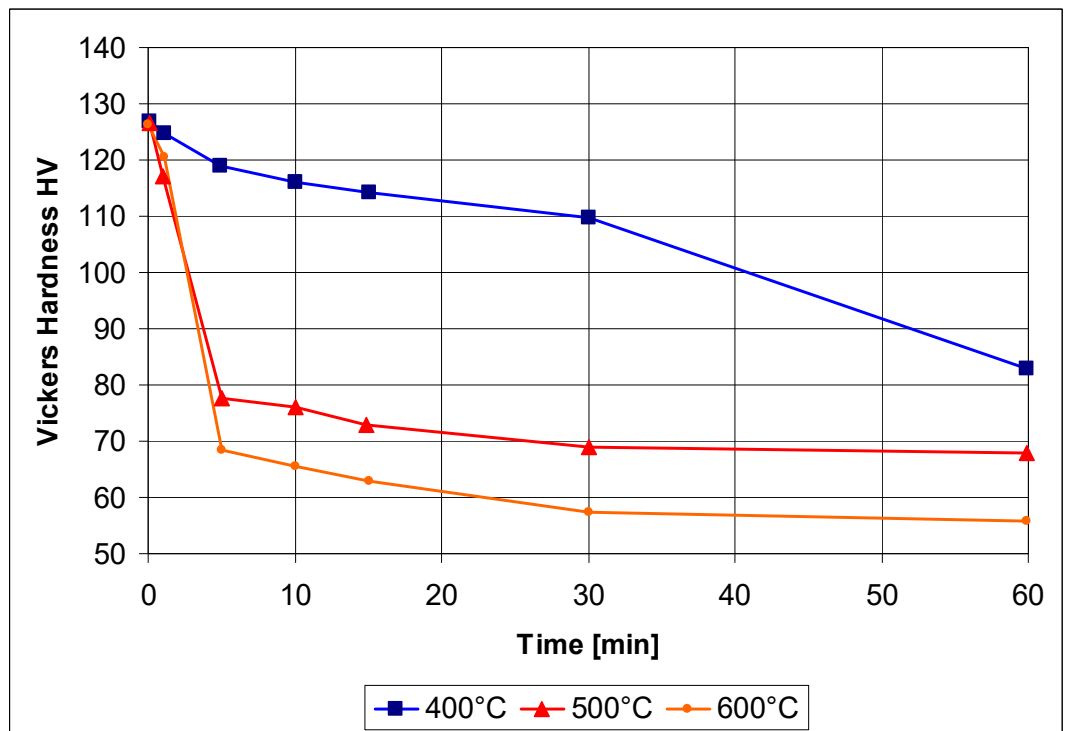
Annealing time 2 min.

Temperatures at 1 min annealing time will be 10 degrees **higher**.
 Temperatures at 4 min annealing time will be 10 degrees **lower**.

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Softening stability

Vickers hardness after heat treatment.
(Temper H02, typical values)



Typical uses

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.

Applicable specifications

ASTM B36 and B888

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