

Baksar - C01

Cu-DHP | C12200 | CW024A

Deoxidized copper with phosphorus which is excellent for deep drawing and other applications requiring severe forming with zero risk to hydrogen embrittlement when heated for brazing, welding, soldering or annealing. Cu-DHP is primarily used in pipe caps, brazed heat exchangers and other applications that require high temperature joining or severe forming as well as heating elements and wire connectors.

Chemical Composition

Cu	≥ 99,90 %
P	0.015-0.040 %

Physical properties (Reference values at room temperature)

Electrical conductivity	MS/m	79 %IACS
Thermal conductivity	W/(m.K)	196 Btu.ft/(ft ² .h.F)
Coefficient of electrical resistance*	10 ⁻³ /K	1,9 10 ⁻³ /F
Coefficient of thermal expansion*	10 ⁻⁶ /K	9,8 10 ⁻⁶ /F
Density	g/cm ³	0,322 lb/in ³
Modulus of elasticity	GPa	17.000 ksi
Specific heat	J/(g.K)	0,092 Btu/(lb.F)
Poisson's ratio		0,34

Mechanical Properties

Temper	Tensile Strength Rm		Yield strength Rp0.2		Elongation A50 %	Hardness HV
	MPa	ksi	MPa	ksi		
R220	220-260	32-38	≤ 140	≤ 20	≥ 33	40-70
R240	240-300	35-44	≥ 180	≥ 26	≥ 8	65-95
R290	290-360	42-52	≥ 250	≥ 36	≥ 4	90-110
R360	≥ 360	≥ 42	≥ 320	≥ 46	≥ 2	≥ 110
Annealed	180-260	26-38	70	10	35	
H01*	235-290	34-42	220	32	23	
H02*	255-315	37-46	255	37	20	
H03*	285-345	41-50	295	43	14	
H04*	295-360	43-52	310	45	9	
H06*	325-385	47-56	345	50	4	
H08*	345-400	50-58	360	52	3	
H10*	≥ 360	≥ 52	≥ 350	≥ 51		

Types and formats available*

Straight Length upto 5 meters

LWC Coils

Pancake Coils

*Inner and Outer diameters varies upon customer order.

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The characteristics of the above products are for reference only, and may not reflect the actual properties of the materials.