

Cu-DLP

Mechanical properties	Temper condition			
	R200	R210	R290	R360
Tensile strength in N/mm ² ref only	200-260	240-300	290-360	>360
0,2% yield strength in N/mm ²	<100	>130	>250	>320
Vickers hardness HV	45-65	65-85	90-110	>110
Elongation A _{L50%}	-	>3	>4	>2
Physical properties (Typical values in annealed temper at 20 °C)				
Thermal expansion coefficient 20 ... 300 °C	17.7		10 ⁻⁶ /K	
Specific heat capacity	0.386		J/(g·K)	
Density	8.94		g/cm ³	
Thermal conductivity	350		W/(m·K)	
Thermal coefficient of electrical resistance (0 ... 100 °C)	3.6		10 ⁻³ /K	
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	132		GPa	
Electrical conductivity (IACS)	90		%	

Material designation	
DIN EN	CW023A
UNS	C12000

Chemical composition	
Cu	99.90 %
P	0.004-0.012 %

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