

Cu-HCP (Cu-Se)

Mechanical properties	Temperature			
	R200	R240	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	>180	>250	>320
Vickers hardness HV	45-65	65-95	90-110	>110
Elongation A _{L50%}	-	> 8	>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	0.385		J/(g·K)	
Density	8.94		g/cm ³	
Thermal conductivity	385		W/(m·K)	
Thermal coefficient of electrical resistance (0 ... 100 °C)	3.7		10 ⁻³ /K	
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	132		GPa	
Electrical conductivity (IACS)	97		%	

Material designation	
DIN EN	CW021A
UNS	-

Chemical composition	
Cu	99.95 %
P	0.002-0.007 %

This information was given with the best knowledge, but cannot guarantee any characteristics we describe listed above. The contract terms of Sofia Med agreed with any individual customer and our general conditions of sales describe the liability of these conditions. In any case do we reserve the right by technical development or any other reason to modify this sheet according to our needs. This data sheet is part of a technical modification service done case by case.