

## Cu-DHP

Mechanical properties		Temper condition			
		R220	R240	R290	R360
Tensile strength in N/mm <sup>2</sup> ref only		220-260	240-300	290-360	≥ 360
0,2% yield strength in N/mm <sup>2</sup>		< 140	≥ 180	≥ 250	≥ 320
Vickers hardness HV		40-65	65-95	90-110	≥ 110
Elongation A <sub>L50%</sub>		min. 33	min. 8	min. 4	min. 2
Physical properties (Typical values in annealed temper at 20 °C)					
Thermal expansion coefficient -191 ... 16°C 0 ...300°C		14.1 17.7		10 <sup>-6</sup> /K 10 <sup>-6</sup> /K	
Specific heat capacity		0.386		J/(g·K)	
Density		8.9		g/cm <sup>3</sup>	
Thermal conductivity		330		W/(m·K)	
Thermal coefficient of electrical resistance (0 ... 300°C)		3.4		10 <sup>-3</sup> /K	
Modulus of elasticity ( 1 GPa = 1 kN/mm <sup>2</sup> )		132		GPa	
Electrical conductivity (1 MS/m = 1 m/(Ω mm <sup>2</sup> ))		≥47		MS/m	
Electrical conductivity (IACS)		≥ 81		%	
Material designation					
EN		Cu-DHP (SF-Cu)			
UNS		C12200			
DIN CEN/TS 13388		CW024A			
JIS		C1220			
Chemical composition		<i>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</i>			
Cu	≥ 99.90 %				
P	0.0160-0.0380%				

We can offer various types of copper rolled products to its industrial customers, all with a minimum 99.9% purity. Our assortment of copper rolled products vary in chemical composition, size and format, all suited to the many types of final processing.

*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.*