

CuSn0.15

Mechanical properties		Temper conditions				
		0 HV60-90	H01 HV85-110	H02 HV105-130	H03 HV120-140	H04 HV135-155
Tensile strength in N/mm ²		250-320	300-370	360-430	420-490	460-560
0,2% yield strength in N/mm ² min.		200	250	320	400	410
Vickers hardness HV (reference value only)		60-90	85-110	105-130	120-140	135-155
Elongation A _{L50%}		>15	>4	>3	>2	>2
Electrical conductivity in % IACS		83	83	82	82	82
Bendability						
0.10 ≤ s ≤ 0.25 mm	Transverse	0 x s	0 x s	0 x s	1 x s	1.5 x s
	Parallel	0 x s	0 x s	0 x s	1 x s	1.5 x s
0.25 < s ≤ 0.5 mm	Transverse	0 x s	0 x s	0.5 x s	1 x s	-
	Parallel	0 x s	0 x s	0.5 x s	1.5 x s	-

Physical properties		
Thermal expansion coefficient 20 ... 300 °C	17.0	10 ⁻⁶ /K
Density	8.9	g/cm ³
Thermal conductivity	360	W/(m·K)
Modulus of elasticity (1 GPa = 1 kN/mm ²) cold formed	128	GPa = kN/mm ²
Electrical conductivity soft	48	MS/m

Material designation	
DIN EN Symbol	CuSn0.15
UNS	C14415
JIS	C1441

Chemical composition	
Cu	Balance
Sn	0.12 %
Fe	<0.02 %
Ni	<0.02 %
Zn	<0.10
P	<0.015

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.