

Phosphor Bronze
(Copper-Tin)
BD60 | BD61 |
BD64 | BD65



Material Designation					About the Alloy
Sundwiger	BD60	BD61	BD64	BD65	
DIN-EN Symbol	CuSn6	CuSn6	CuSn6	CuSn6	
DIN-EN	CW452K				
UNS	C51900				

Physical Properties*				
Sundwiger		BD60	BD61	BD64
Condition of tin content within DIN EN tolerance		low	low	high
Condition of phosphor content within DIN EN tolerance		low	high	low
Density in g/cm³		8.8	8.8	8.8
Electrical conductivity in % IACS soft		≥14	≥13	≥13
* Reference values				

Mechanical Properties*					
Sundwiger		BD60	BD61	BD64	BD65
Tensile strength in N/mm²	soft	360 - 440	360 - 440	360 - 440	360 - 440
	1/4 hard	430 - 550	430 - 550	430 - 550	430 - 550
	1/2 hard	530 - 630	530 - 630	530 - 630	530 - 630
	3/4 hard	630 - 740	630 - 740	630 - 740	630 - 740
	hard	740 - 900	740 - 900	740 - 900	740 - 900
	springhard	min 900	min 900	min 900	min 900
Elongation A100 in %	soft	≥40	≥40	≥40	≥40
* Reference values					

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Reference to Standards		Typical Applications	Available Dimensions		
DIN	EN 12166	<ul style="list-style-type: none"> • Connectors • Spring wire • Screws • Rivets • Wire mesh • Spectacle frames • Reinforcement (construction) 	Rolled, modified square wire	5.1 mm 7.4 mm	max. 2000 kg
			Round wire	1.2 - 6.2 mm in coils	max. 200 kg
				1.8 - 6.2 mm on stands	max. 1500 kg
				0.5 - 3 mm on reels	max. 1000 kg
				1.5 - 3 mm on acropaks	max. 400 kg
				On request: in drums	max. 400 kg
				On request: in bars, diameter 2 - 5 mm, sheared ends (length ≤ 3.5 m)	max. 500 kg

Your Contact Person	
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