KMD 560 - CuSn6 - C51900 - CW 452 K

Application range:

Contact springs; connectors; membranes; switch elements; fixed contacts. Ultra-high strength spring elements.

Physical properties

Density*	g/cm³	8,8
Thermal conductivity*	W/(m·K)	75
Electr. Conductivity ***	MS/m	8
Electr. Conductivity ***	IACS (%)	13
therm. Expansion coefficient **	10^{-6} K	18,5
Modulus of elasticity*	GPa	118

Chemical composition (%)

Cu:	Rest
Sn:	5,5 - 7,0
P:	0,01 - 0,4

Condition	Temper class	Tensile strength T.S. min.-max. MPa	Yield strength Rp 0,2 min. MPa		Elongation A50 min. %		Hardness (Reference value) HV	Electrical conduc-tivity MS/m	Bendability 90° 1) 2) 3) Strip thickness ≤0,5 mm			
									R/t gw		R/t bw	
			3)	4)	3)	4)			stretch leveled	thermal stress relieved	stretch leveled	thermal stress relieved
cold rolled	R350	350 - 420	max. 300		45		80 - 120	8	0	0	0	0
cold rolled	R420	420 - 520	350	340	22	29	120 - 170	8	0	0	0	0
cold rolled	R500	500 - 590	450	410	15	22	160 - 190	8	0	0	0	0
cold rolled	R560	560 - 650	520	490	10	15	180 - 210	8	0	0	0	0
cold rolled	R640	640 - 730	590	570	5	12	200 - 230	8	0	0	1	0,5
cold rolled	R720	min. 720	650	620	-	4	min. 210	8	-	1	-	-
cold rolled	R850 5)	min. 850	-	800	-	1,5	min. 240	8	-	1	-	-

5) Thickness range: 0,15 - 0,60 mm

on request in fine grain size version

* Reference values at room temperat ** Between 20 and 300 °C *** Values for the lowest temper class

1) r = x · t (strips up to t = 0,50 mm) 2) Sample width = 10 mm / bending at smaller bending widths on request (Evaluation according to page 5.4.2. of Hand-Out)

3) stretch leveled

4) thermal stress relieved

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