

KMD 100 - Cu-ETP - C11000 - CW 004 A

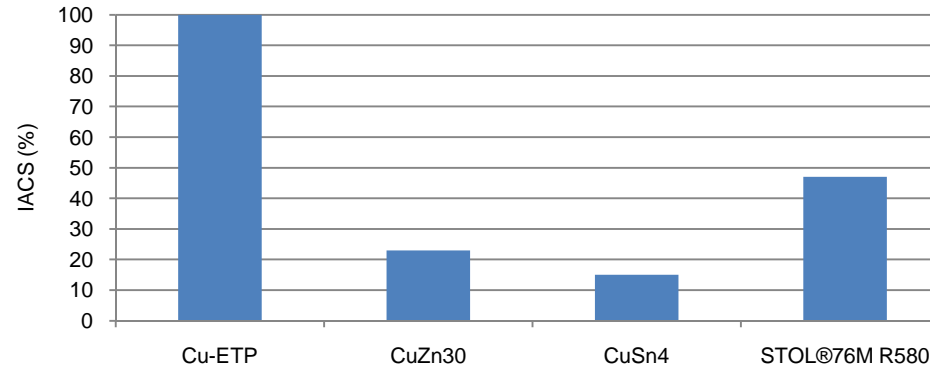


Application range:

Basic material for electrical parts.

Physical properties

Density*	g/cm ³	8,9
Thermal conductivity*	W/(m·K)	394
Electr. Conductivity ***	MS/m	58
Electr. Conductivity ***	IACS (%)	100
therm. Expansion coefficient **	10 ⁻⁶ K	17,7
Modulus of elasticity*	GPa	127



Electrical conductivity (IACS %) of selected alloys

Chemical composition (reference values) (%)

Cu:	99,9
O:	0,005 - 0,040

Condition	Temper class	Tensile strength T.S. min.-max. MPa	Yield strength Rp 0,2 min. MPa () only information	Elongation A50 min. %	Hardness (Reference value) HV	Electrical conductivity MS/m	Bendability	
							R/t 90° gw Strip thickness ≤0,5 mm	R/t 90° bw Strip thickness ≤0,5 mm
cold rolled	R220	220 - 260	(max. 140)	33	40 - 65	58	0	0
cold rolled	R240	240 - 300	180	8	65 - 95	58	0	0
cold rolled	R290	290 - 360	250	4	90 - 110	58	0	0,5
cold rolled	R360	min. 360	320	2	min. 110	58	1	2

* Reference values at room temperatur ** Between 20 and 300 °C

*** Values for the lowest temper class

¹⁾ $r = x \cdot t$ (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)

Disclaimer: Due to possible changes and variations in the production process, the information published in the hand-out / brochure / datasheet cannot be guaranteed. The right to changes and modifications in the composition of the products is hereby explicitly reserved, so no warranty claim shall be derived from the information provided.

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