

# C15100 - CuZr - C15100



## Application range:

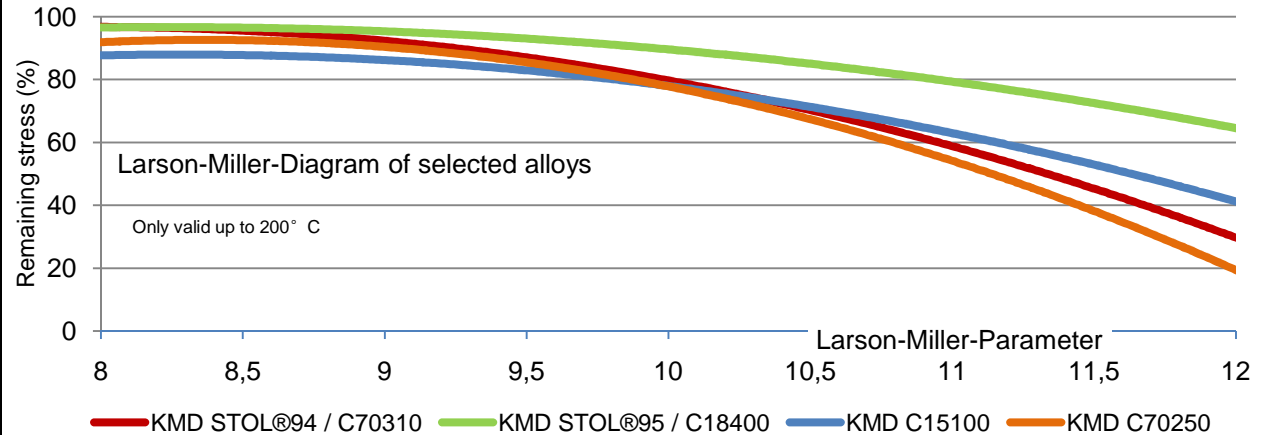
Connectors, relays, springs, high voltage contacts

### Physical properties

Density*	g/cm <sup>3</sup>	8,94
Thermal conductivity*	W/(m·K)	360
Electr. Conductivity ***	MS/m	55
Electr. Conductivity ***	IACS (%)	95
therm. Expansion coefficient **	10 <sup>-6</sup> K	17,6
Modulus of elasticity*	GPa	121

### Chemical composition (%)

Cu:	≥ 99,80
Zr:	0,05-0,15
Fe+Al+Mn:	≤ 0,01



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		Bendability	
							R/t <sup>1) 2) 3)</sup> 90°		R/t <sup>1) 2) 3)</sup> 180°	
							gw Strip thickness ≤0,5 mm	bw Strip thickness ≤0,5 mm	gw Strip thickness ≤0,5 mm	bw Strip thickness ≤0,5 mm
cold rolled	R280	280 - 310	190	13	80 - 100	55	0	0	0	0
cold rolled	R300	300 - 360	280	6	95 - 115	55	0	0	-	-
cold rolled	R320	320 - 390	310	5	100 - 125	55	-	-	-	-
cold rolled	R360	360 - 430	350	4	120 - 145	55	-	-	-	-
cold rolled	R400	400 - 450	390	3	125 - 150	55	-	-	-	-
cold rolled	R440	440 - 490	430	2	min. 135	55	-	-	-	-

\* Reference values at room temperat \*\* Between 20 and 300 °C

\*\*\* Values for the lowest temper class

<sup>3)</sup> values for stress relieved qualities

<sup>1)</sup>  $r = x \cdot t$  (strips up to  $t = 0,50$  mm) <sup>2)</sup> 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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