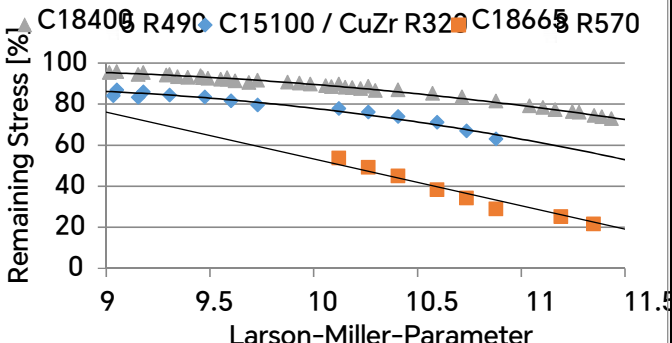
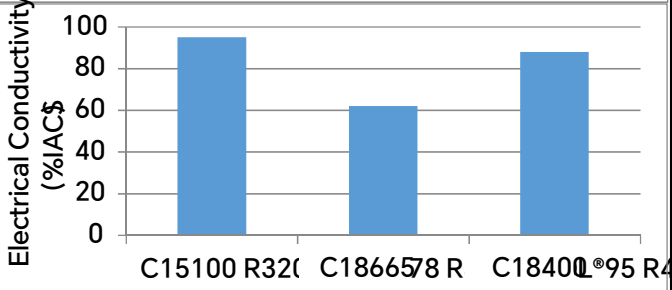


CuZr0.1-C15100

Application Range											
Connectors, relays, springs, high voltage contacts											
Physical Properties							Chemical Position (reference value) %				
Density *		g/cm³		8.94			Cu		≥99.8		
Thermal conductivity *		W/(m·K)		360			Zr		0.05-0.15		
Electr. conductivity ***		MS/m		55			Fe+Al+Mn		≤ 0.01		
Electr. conductivity ***		IACS (%)		95							
Thermal expansion c. **		10 ⁻⁶ /K		17.6							
Modulus of elasticity *		GPa		121							
Condition	Temper class	Tensile strength	Yield strength	Elongation	Hardness	Electr. Conductivity	Bendability		Bendability		
		T.S. min. - max. MPa	Rp 0.2 min. MPa	A50 min. %	(reference value) HV	MS/m	R/t ^{1) 2) 3)} 90°		R/t ^{1) 2) 3)} 180°		
				3)			GW Strip thickness ≤0.5mm	BW Strip thickness ≤0.5mm	GW Strip thickness ≤0.5mm	BW Strip thickness ≤0.5mm	
Cold rolled	R280	280-310	190	15	80-100	55	0	0	0	0	
Cold rolled	R300	300-360	280	6	95-115	55	0	0	0.5	0.5	
Cold rolled	R320	320-390	310	5	100-125	55	0.5	1	0.5	1	
Cold rolled	R360	360-430	350	4	120-145	55	1	1	1	1.5	
Cold rolled	R400	400-450	390	3	125-150	55	2	2	2	2.5	
Cold rolled	R440	440-490	430	2	min.135	55	2.5	2.5	3	3.5	

*Reference values at room temperature

**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)

3) Valid only as thermal stress relieved qualities

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.