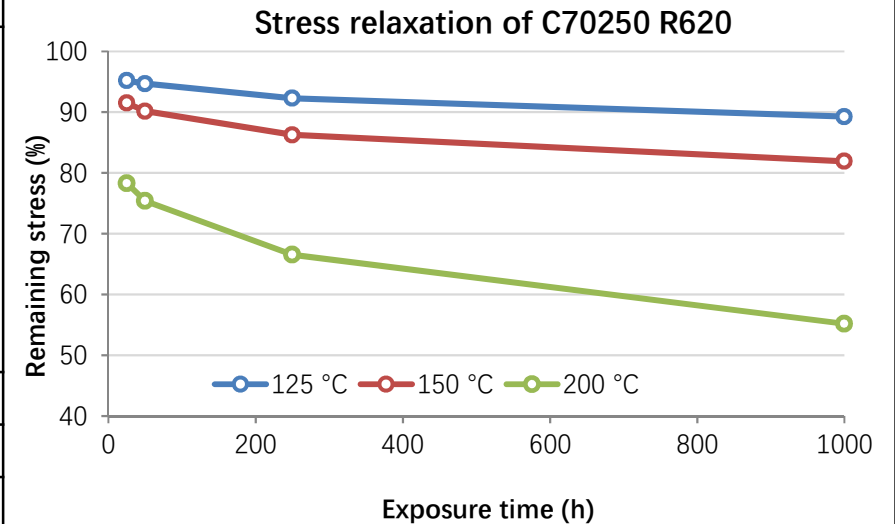


4.8 CuNi3Si - C70250

Application Range								
Connectors, bent parts, relays								
Physical Properties							Chemical Position (reference value) %	
Density *		g/cm ³		8.8		Cu		min. 96.2
Thermal conductivity *		W/(m·k)		190		Ni		2.2 - 4.2
Electr. conductivity ***		MS/m		23		Si		0.25 - 1.2
Electr. conductivity ***		IACS (%)		40		Mg		0.05 - 0.30
Thermal expansion c. **		10 ⁻⁶ K		17.6		Other		Rest
Modulus of elasticity *		Gpa		130				
Condition	Temper class	Tensile strength	Yield strength	Elongation	Hardness	Electr. Conductivity	Bendability	
		T.S. min. - max. MPa	Rp 0.2 min. MPa	A50 min. %	(reference value) HV		R/t ^{1) 2)} 90°	GW Strip thickness ≤0.5mm
			() only information					
Cold rolled	R620	620 - 760	500	10	180 - 240	23	0	0
Cold rolled	R655	655 - 825	585	7	190 - 250	23	1	1
Cold rolled	R690	690 - 860	655	5	220 - 260	23	1.5	1.5
Cold rolled	R720	750 - 860	700	4	230 - 260	23	2	2



*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)

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