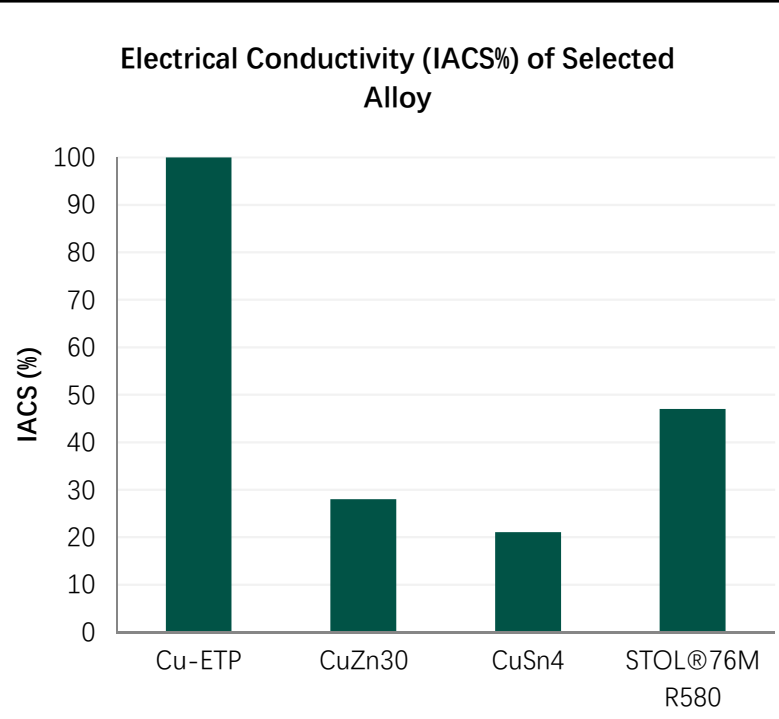


### 3.4 Cu-ETP-C11000 - CW004A

Application Range								
Basic material for electrical parts								
Physical Properties							Chemical Position (reference value) %	
Density *		g/cm <sup>3</sup>		8.9		Cu		99.9
Thermal conductivity *		W/(m·k)		394		O		≤ 0.040
Electr. conductivity ***		MS/m		58/57		<p style="text-align: center;"><b>Electrical Conductivity (IACS%) of Selected Alloy</b></p> 		
Electr. conductivity ***		IACS (%)		100				
Thermal expansion c. **		10 <sup>-6</sup> K		17.7				
Modulus of elasticity *		Gpa		127				
Tensile strength	Yield strength	Tensile strength T.S. min. - max. MPa	Yield strength Rp 0.2 min. MPa	Elongation A50 min. %	Hardness (reference value) HV	Electr. conductivity MS/m	Bendability R/t <sup>1) 2)</sup> 90° GW Strip thickness ≤0.5mm   BW Strip thickness ≤0.5mm	
			( ) only information					
Cold rolled	R220	220 - 260	(max. 140)	33	40 - 65	58	0	0
Cold rolled	R240	240 - 330	180	8	65 - 95	57	0	0
Cold rolled	R290	290 - 360	250	4	90 - 110	57	0	0.5
Cold rolled	R360	min. 360	320	2	min. 110	57	1	2

\*Reference values at room temperature

\*\*Between 20 and 300 °C

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

<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.