

Cu-ETP

Designation	EN / Cu-ETP	EN / CW004A	UNS / C11000
--------------------	--------------------	--------------------	---------------------

This very pure copper with very high electrical and thermal conductivity has the best properties for the use in the electrical industry. This material can be used to make thin copper foil.

COMPOSITION OF MATERIAL

• Cu: ≥ 99,9 % • O: ≤ 0,04 %

PHYSICAL PROPERTIES

• Density	8,93 g/cm ³
• Melting point	1083 °C
• Electrical conductivity	min. 58 m/Ω mm ² (at 20 °C R200)
• Electrical resistivity	max. 0,017241 Ω mm ² /m (at 20 °C R200)
• Temperature coefficient of electrical resistance	3,7·10 ⁻³ /K (at 0 to 200 °C R200)
• Thermal conductivity	394 W/K m (at 20 °C)
• Thermal capacity	0,386 J/g K (at 20 °C)
• Coefficient of thermal expansion (linear)	17,7·10 ⁻⁶ /K (at 20 to 300 °C)
• Modulus of elasticity (tensile)	110 GPa (at 20 °C R200)

MANUFACTURING PROGRAM	THICKNESS	WIDTH
Rolls, spools, sheets	0,006 - 0,4 mm	0,6 - 660 mm

not all combinations of thickness and width are available
or different dimensions please contact our technical service

TEMPER ACCORDING TO DIN EN 13599			TYPICAL VALUES (information only)
	Tensile strength Rm in MPa	Yield strength Rp0,2 in MPa	Elongation in % L0 = 100 mm
R200	200 - 250	≤ 100	> 15
R220	220 - 260	≤ 140	> 15
R240	240 - 300	≥ 180	< 35
R290	290 - 360	≥ 250	< 20
R360	≥ 360	≥ 320	< 5

The values in the table are valid only for foils with thickness > 0,1 mm.

For further information please visit our website: <https://www.schlenk.com>
You will find further information at: <https://copperalliance.eu>