

Data Sheet: Copper 2.0060

(Cu-ETP)

Alternative Designations

Standard	EN	UNS	JIS	SIS	UNE
Designation	CW004A	C11000	C1100		

Details

It has high conductivity and high corrosion resistance. It has a tensile strength of 360MPa. It is also known as Electrolytic Tough Pitch copper (ETP). It is normally used for general electrical components such as busbars, motors, windings etc. it has excellent formability and machinability.

Key Features

High conductivity • Good machinability • Excellent solderability • Excellent formability

Chemical Composition

Element	Cu	O	Bi	Pb
Percentage	99.9	0.04	0.0005	0.005

Mechanical Properties

Property	Yield strength [MPa]	Ultimate tensile strength [MPa]	Elongation [%]	Hardness
Value	140	220 - 260	≥33	40 - 65

Physical Properties

Property	Value
Density [g/cm ³]	8.9
Module of elasticity [GPa]	127
Electrical conductivity [m/Ω · mm ²]	100
Coefficient of thermal expansion [K ⁻¹ · 10 ⁻⁶]	17.7
Thermal conductivity [W/m · K]	390
Specific heat capacity [J/kg · K]	394

Reference

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