

Westgate

C101

(UNS C10100) W Nr.2.0060

Chemical composition	Cu	O	Total Impurities
% Present (Max)	≥99.90	0.005–0.040	≤0.03

C101 (also designated CW004A or Cu-ETP) is a commercially pure, high-conductivity copper alloy, widely recognised as one of the most used copper grades due to its exceptional electrical and thermal conductivity, good corrosion resistance, and ease of fabrication. It is formed by electrolytic refining to produce copper with controlled low oxygen content, giving it a tough pitch condition that performs extremely well for current-carrying applications.

This alloy is very ductile and workable, making it suitable for drawing, bending, forming, soldering, and brazing. It finds widespread application in electrical engineering (busbars, connectors, windings), mechanical components, architectural metalwork, and heat exchange systems. Over time in atmospheric service, C101 develops a traditional copper patina (greenish surface) which enhances corrosion resistance and aesthetic appeal. The use of C101 in high-temperature reducing atmospheres should be evaluated carefully because the oxygen content can make it susceptible to hydrogen embrittlement in certain conditions.

Note: Values are in accordance with EN 10088 specifications. Actual mill certs available upon request.



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