CW106C

Pure Copper / Conductive Copper

Standardization:
Pure Copper

ALLOY DESCRIPTION

It is a low-alloy / high-purity copper material accepted as a reference for applications requiring high electrical and thermal conductivity. It is perfectly suited for extreme cold forming and bending operations.

CHEMICAL COMPOSITION (% WEIGHT)

Fe (%)	Si (%)	Cr (%)	Zr (%)
max 0.08	max 0.1	0.5 - 1.2	0.03 - 0.3

MECHANICAL PROPERTIES (MIN.)

Elongation (A)	**30**
Hardness (HB)	**65 - 90**

PHYSICAL PROPERTIES

Density	**8.90 [kg/dm³]**
Melting Temperature	**~1080 - 1083 [°C]**
Elk. Conductivity	**~45 - 58 [MS/m]**
Elasticity Modulus	**115 [kN/mm²]**

CASTING / MANUFACTURING METHODS

EK	**Extrusion (Rod/Profile)**
GS	**sand casting**
GM	**Permanent mold casting**
GZ	**Centrifugal casting**

AREAS OF APPLICATION

- Electrical Conductors
- Heat Exchangers
- Connectors
- Transformer Parts
- Switch Components

MACHINABILITY & CHARACTERISTICS

Due to its pure structure, it is extremely ductile. In machining, it forms long and sticky chips, requiring sharp-geometry tools. Very suitable for soldering and welding. It has good natural resistance to corrosive atmospheres.

CORUM BRONZE

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