# **ETP COPPER** (UNS C11000) SPECIFICATION & DATASHEET

## ALLOY CHARACTERISTICS

Cu-ETP is an oxygen containing copper which has high electrical and thermal conductivity. It also has excellent forming properties. Due to its oxygen content soldering and welding properties are limited. Main applications: Automotive Radiators, Electrical connectors, Transformer Strips, Switches, Terminals, Contacts, Connectors, Busbars, Terminal Connectors, Conductors, Cable Strips Industrial, Printed circuit boards, Stamped parts, Pressure Vessels, Chemical Process Equipment, Heat Exchangers, Heat sinks, Printing Rolls, Anodes, Rotating Bands, Kettles, Pans & Vats.

## ALLOY PURITY

99.9% Copper.

## MECHANICAL PROPERTIES

| PROPERTY | UNITS |
|---|---|
| Half Hard Temper | HV 65-95 |
| Tensile Strength | 240-300 $N/mm^2$ |
| Elongation | Min. 14% |

## PHYSICAL PROPERTIES

| PROPERTY | UNITS |
|---|---|
| Melting Point (Liquidus) | Approx. 1083° C |
| Density | 8.93 $gm/cm^3$@20°C |
| Coefficient of Thermal Expansion | 17.7 x $10^{-6}$ /°K (20°C) |
| Electrical Conductivity | Min. 98% IACS |
| Thermal Conductivity | 388 W/m.K @ 20° |

## SIMILAR SPECIFICATIONS

- EN Cu-ETP
- DIN CW004A
- JIS C1100
- ASTM C11000

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