

## Material Description

Red Copper

Copper is a ductile metal with excellent conductivity. The surface colour of red copper is rose red, with a purity of about 99.9%. Some other elements are added to improve the surface and performance.

### Advantages

Red copper has good conductivity, heat conduction, ductility, deep drawing and resistance to corrosion, whose conductivity and thermal conductivity are second only to silver. Red copper has good weld ability and can be processed into various semi-finished and finished products through cold and thermoplastic processing.

### Disadvantage

Weaker metal

### Tolerance

0.025/0.05/0.1mm

### Recommendation

Red copper has good conductivity, heat conduction, ductility, deep drawing and resistance to corrosion, widely used in telecommunication, chemistry and mold processing industry.

### Attention

If there is included angle in model structure, we will make it an R angle by default. Please communicate with account manager if you need the included angle in your model.

### Attributes

Resistivity: 0.01851  $\Omega$

Melting Point: 1083°C

Thermal conductivity: 386.4 w/(m.k)

Hardness: 35~45

Density: 8.96g/cm<sup>3</sup>

Tensile strength  $\sigma_b$  (MPa):  $\geq 210$

Elongation  $\delta_{10}$  (%):  $\geq 13$

Elongation  $\delta_5$  (%):  $\geq 16$

## Applications

### Telecommunication, Chemistry and Mold Processing industry.

Widely used for production of conductive and heat-conducting equipment, and is used as shielding materials for electrical vacuum instruments and communication cables. Such as: high-frequency cables (coaxial cables, waveguides), water drop cables, mineral insulated cables (such as flame retardant cables), power cables, etc., as well as plastic molds, die-casting molds, metal molds, tensile molds, stamping molds and other mold industries