Technical Specification

1. Product

Copper Rod with diameter 8.10 mm

2. Compliance with requirements of international standards

Copper wire rod manufactured in accordance with requirements of ASTM B-49 for Copper Rod for Electrical Purposes and EN 1977 of international standards for copper wire rod

3. Application

Copper wire rod is suitable for further fabrication into electrical conductors using drawing and multi-drawing technologies

4. Characteristics

Nominal diameter of copper wire rod: 8,10 mm Tolerance: ±0.3 mm
Chemical composition:corresponds to M001(ETP Cu, UNS No. C11040(ASTM B 49) and Cu-ETP1, No. CW003A (EN 1977)
O2content: ≈ 200 ppm
Surface oxide: < 300 Å
Electrical resistivity: < 0.01700Ω x mm2/m Conductivity: >101.4 % IACS (volume basis - EN1977, ASTM B 193-02)
Elongation: > 40 %
Spiral elongation:430-450 mm
Ultimate strength: ≥ 220 MPa
Twist test: Ø8 mm > 55 twists into one directionuntil break; Ø10 mm>40twists into one direction until break
Surface finish: copper wire rod shouldhave smooth and plain surfacewithout cracks, inclusions and defects, which could interrupt further industrial fabrication
Note: mentioned above values are typicalfor copper wire rod. Compliance with requirements of ASTM B 49 and EN 1977is guaranteed

5. Packaging

Type of package: coil in polypropylene wrapping on wooden pallet tied by 8 plastic straps
Dimensions of coil: outside Ø 1600 mm, inside Ø 800 mm
Dimensions of pallet: 1600 x 1600 x 160 mm Weight of package: net weight 3-5 tons
Type of winding: orbital
Note: Copper wire rod coils have a continuous length without joints

6. Label

Tag with indication of: name of the product / date of manufacture / number of coil / net and gross weight (kg)