

# Oxygen Free Copper Wire Rod

The OFC Rod with ten upward casting lines from Rautomead, UK with a total capacity of 8000 tons a year  
THE ONLY INDIAN OFC ROD IN THE WORLD WITH STATE-OF-THE-ART EUROPEAN TECHNOLOGY.

## TECHNICAL SPECIFICATIONS

Standards	ASTM B 49- 10 ( Table 1: UNS number 10200)
Diameter	8 mm to 16 mm
Size	8 mm, 12.5 mm & 16mm
Packaging in Coils	Wooden Pallet 1500 * 1500 mm and HDPE cover
Internal Diameter	950 mm
Outer Diameter	1500 mm
Coil Weight	Upto 5 mt as per customer requirement (standard coil weight 1, 2.2, 3 & 4 mt)

**Standards OF Mechanical Properties (OF Rod , not rolled) : ASTM B 49 (Table UNS No. C10200-Copper type OFC)**

UNS Number 11200 Copper Type	Unit	ASTM B49-09	TDT Typical
Copper, min	% min	99.90	> 99.996
Tellurium	ppm	2	< 1.0

Selenium	ppm	2	<1.0
Bismuth, max	ppm	1	1
Antimony max	ppm	4	0.9
Arsenic max	ppm	5	1.16
Tin, max	ppm	5	0.42
Lead max	ppm	5	0.7
Nickel max	ppm	10	0.76
Sulfur, max	ppm	15	7-8
Silver, max	ppm	25	9.2
Oxygen	ppm	<10	<10
% Elongation	% min	30% min	>38
Tensile strength	Min Mpa / N/mm2	>170	>170
Surface Oxide	Angstrom max	750	<300
Conductivity	% IACS	100%Min	>102
Diameter	Tolerance	+/-0.38 mm	< +/-0.20

## Quality features

- Superior Electrical Conductivity.
- High Thermal conductivity.
- High Ductility.
- Good for low frequency signal transmission.
- Less Surface Oxides.

- High Creep Resistance.
- Inclusion free product.
- Good Weldability.

### Ideal raw material for:

- Drawing wires in the industry of large motors, transformers, wire and cables.
- Aerospace industry, automotive harnesses, robotic arms, printer head cables.
- High end audio and video systems.
- Trolley wire ( High Creep resistance).
- production of ultra-fine magnet wire and as a feedstock for continuous extrusion for miniaturized circuitry of electronics industry.
- Multi strand drawing machines.
- Strips being made with conform process.
- Energy and heat transfer system e.g. solar & Thermal panels.
- Telecom industry cables, requiring high electrical conductivity, good weldability, tight physical tolerance and very clean product.