

CONTINUOUS CAST

COPPER ROD

DMB copper rods are produced using CONTIROD technology. The process involves melting, casting and rolling. Also, a novel gas control system is used to ensure that each of the 15 burners perform independently. The final result of the process is the high quality metallurgical structure of the copper rod, it is then coiled in an orbital layout to prevent entanglement.

Applications: DMB copper rods find a wide range of applications which include,

- Power Cables
- Communication Cables
- House Wiring
- Conductors (Round and Sector)
- Jelly Filled Telephone Cables
- Automotive Wire Harness
- Magnet Wires
- Electrical Machinery
Transformers and Motors



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PHYSICAL DIMENSION AND PROPERTIES

Size (mm)	8
Outer diameter of coil (mm)	1650
Inner diameter of coil (mm)	900
Weight of each coil (kg)	Maximum 5000 : Weld free
Coil laying	Orbital
Standards / Specification	ASTM B49 / BSEN 1977

TYPICAL PARAMETERS

.Sr. No	Parameters	Specification	
		Ducab	ASTM B49
1	Oxygen (ppm)	200-400	100-650
2	Surface oxide (Angstrom)	Max. 500 A	Max. 750 A
3	Diameter variance (mm)	±0.38	±0.38
4	Conductivity IACS %	>101	Min. 100
5	Elongation %	>40	Min. 30
6	Tensile strength (N/mm2)	>220-240	--
7	Surface	Smooth surface	Smooth surface

TYPICAL CHEMICAL ANALYSIS (PPM)

Parameters	ASTM B49	BSEN 1977
Selenium	2	2
Tellurium	2	2
Bismuth	1	2
Group Total (Se+Te+Bi)	3	3
Antimony	4	4
Arsenic	5	5
Tin	5	*
Lead	5	5
Iron	10	10
Nickel	10	*
Sulphur	15	15
Silver	25	25
Total Impurities (Max. in ppm)	65	65

*: Co+Fe+Ni+Si+Sn+Zn – maximum 20 ppm

PACKAGING & MARKING DETAILS

In delivering the best quality product to end users, the dispatched coils from DMB are fully protected to avoid damage during the shipment process. Each coil is compacted and then packed on wooden pallets, strapped in, and then stretch-wrapped to prevent exposure to dust. This process also ensures seaworthy packaging of each coil. Furthermore, for customers that require quick product information on site, a QR code is placed on each package to streamline delivery and receipt.

