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**Oxygen-free  
silver-bearing  
copper rod**

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# Oxygen-free silver-bearing copper rod

Producer	KGHM Polska Miedź S.A. Cedynia Wire Rod Plant Division in Orsk
Product	Oxygen-Free, Silver-Bearing Copper Rod: CuAg0,04(OF)-8, CuAg0,04(OF)-12,7, CuAg0,04(OF)-16, CuAg0,04(OF)-20, CuAg0,04(OF)-22, CuAg0,04(OF)-24, CuAg0,04(OF)-25 CuAg0,07(OF)-8, CuAg0,07(OF)-12,7, CuAg0,07(OF)-16, CuAg0,07(OF)-20, CuAg0,07(OF)-22, CuAg0,07(OF)-24, CuAg0,07(OF)-25 CuAg0,10(OF)-8, CuAg0,10(OF)-12,7, CuAg0,10(OF)-16, CuAg0,10(OF)-20, CuAg0,10(OF)-22, CuAg0,10(OF)-24, CuAg0,10(OF)-25
Standard	PN-EN 1977 ASTM B49
Dimensions and tolerances	8 mm ±0,4; 12,7 mm ±0,4; 16 mm ±0,4; 20 mm ±0,6; 22 mm ±0,6; 24 mm ±0,6; 25 mm ±0,8
Charge material	Cathode grades: Cu-CATH-1; brands: HMG-B, HMG-S Refined silver AgO min 99.99% Ag
Ag content	CuAg0,04 (300–500 ppm); CuAg0,07 (600–800 ppm); CuAg0, 10 (800–1200 ppm)
Impurities	Maks. 15 ppm, O <sub>2</sub> = maks. 5 ppm
Physical properties	Electrical conductivity in 20°C: min. 58.0 MS/m (100.0% IACS) Hydrogen embrittlement: CuAg0.10(OF)-8 without breaks after two-sided bending test (minimum 10 bends) CuAg0.10(OF)-12.7 and bigger diameters without breaks after single bend test Elongation (200 mm): ≥ 38 ± 2% Tensile strength (200 mm): 180 ± 10 N/mm <sup>2</sup>
Packing	The oxygen-free Cu rod is supplied in coils at weight 2,5 up to 4 mt, in one piece at full length. Each coil is secured with stretch foil to protect it from external conditions. Pallet dimensions: 1650 x 1650 x 150 mm Internal coil diameter: 900 mm External coil diameter: 1800 mm

- The Cedynia Wire Rod Plant Division of KGHM Polska Miedź S.A. produces oxygen-free, silver-bearing Cu rod in a structurally cast state. At the customer's request it is possible to produce CuAg(OF) silver-bearing rods in a non-standard way.
- The surface of the oxygen-free, silver-bearing copper rod is smooth and clean without cracks and micro holes, and is coated with a synthetic wax layer to protect the surface against oxidation during transport and storage (application of the synthetic wax layer is optional at the customer's request).
- The oxygen-free, silver-bearing copper rod has an enhanced resistance to heat-related abrasion. Thanks to trace amounts of oxygen (max. 5 ppm) the rod has excellent drawability.
- The Cedynia Wire Rod Plant Division of KGHM Polska Miedź S.A. holds an Integrated Management System Certificate conforming to the following standards: PN-EN ISO 9001:2009, PN-EN ISO 14001:2005 and PN-N 18001:2004 for the products it manufactures.



## KGHM Polska Miedź S.A.

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