

COPPER CATHODE SPECIFICATION



Rectangular plates of electrolytic copper with a high degree of purity.

APPLICATIONS

Its chief application is as a raw material for the production of electrolytic copper rebar, computer bars, and the composition of various alloys.

CHARACTERISTICS

CHEMICAL COMPOSITION

Material: Electrolytic copper 99.99 %.

Chemical Composition: Total concentration of all impurities ≤ 65 ppm (typical value ≤ 25 ppm).
Copper obtained by the difference between 100% and total impurities.

ELEMENT	SPECIFIED	TYPICAL
Se	< 1.0 ppm	< 1.0 ppm
Te	< 1.0 ppm	< 0.5 ppm
Bi	< 0.5 ppm	0.20 ppm
Sb	< 1.0 ppm	< 1.0 ppm
As	< 3.0 ppm	1.2 ppm
Pb	< 1.0 ppm	0.3 ppm
Fe	< 5.0 ppm	2.8 ppm
S	< 10.0 ppm	4.5 ppm
Ni	< 5.0 ppm	< 1.0 ppm
Sn	< 1.0 ppm	< 0.5 ppm
Ag	< 12.0 ppm	8.0 ppm



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ELEMENT	SPECIFIED	TYPICAL
Zn	not specified	< 1.0 ppm
Co	not specified	< 0.5 ppm
Cr	not specified	< 0.5 ppm
Mn	not specified	< 0.5 ppm
O2	100-600 ppm	200 ppm

The value specified is in accordance with standard ASTM B 115-00



DIMENSIONAL ASPECT

Length= 990 ± 10 mm
Width= 970 ± 10 mm
Thickness= 5 a 25 mm

Note: these data are merely illustrative, and release of the product is not contingent upon them.

SURFACE APPEARANCE

The surface of the cathode should be reasonably free of nodules and foreign matter, such as copper sulfate, grease, oil and sludge residue.

SPECIFIC PROPERTIES

Electric conductivity: 100% IACS (minimum)
Spiral length = 350 mm (minimum)



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IDENTIFICATION

Cathode packages are identified by four fastening seals with the initials CbM. On the upper plate there is a label, and/or the following data are written:

- Lot/group number
- Package number
- Package plate number
- Net weight of package in kilos

The layouts and identification of CbM cathode packages have part of the plates with flaps in opposing positions, and flaps in matching positions.



CONTAINERS

Each package of cathode weighs from 2,300 to 3,000 kilos, and is bound by two metal ribbons.

SAFETY ASPECT

The product is characterized as general freight. It should be handled with leather gloves, with the observance of standards for the movement of heavy-weight freights.

APPLICABLE TECHNICAL STANDARDS

The product meets the following technical standards:

- ASTM B 115-00
- BS EM 1978:1998
- NBR 5026-2001



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