

Electronic-Grade Copper Oxide Powder (CuO)

Technical Data Sheet (TDS)

Published technical reference for preliminary engineering and procurement review

1. Document Information

Product name	Electronic-Grade Copper Oxide Powder
Chemical name	Copper(II) oxide / Copper oxide
Molecular formula	CuO
CAS No.	1317-38-0
EC No.	215-269-1
Manufacturer	Guixi Zhongan Copper Co., Ltd.
Issue date	2026-10-12
Version	1.0
Document status	Public technical reference; not a shipment-specific Certificate of Analysis (COA)

2. Product Use and Evaluation Scope

Electronic-grade copper oxide powder is evaluated as a controlled copper source for PCB acid-copper replenishment systems, including processes using insoluble anodes. Its suitability for a specific bath, dosing method, equipment configuration, impurity requirement, or downstream process must be confirmed by the buyer’s own process validation and the agreed purchase specification.

This document provides published reference limits for initial technical and supplier review. It does not replace the agreed purchase specification, the SDS, a process trial, destination-specific regulatory review, or the COA issued for the actual shipment.

3. Published Electronic-Grade Specification

Item	Published electronic-grade specification	Unit
CuO	≥ 99.00	%
Chlorine (Cl)	≤ 0.0015	%
Lead (Pb)	≤ 0.0005	%
Sodium (Na)	≤ 0.0030	%
Magnesium (Mg)	≤ 0.0010	%
Manganese (Mn)	≤ 0.0005	%
Iron (Fe)	≤ 0.0010	%
Nickel (Ni)	≤ 0.0010	%
Zinc (Zn)	≤ 0.0010	%
Calcium (Ca)	≤ 0.0010	%
Acid-insoluble matter	≤ 0.003	%
Acid dissolution time	≤ 30	s

Important: Published specification ranges are reference limits. The actual values for an order are confirmed by the applicable batch COA and the agreed specification. Any representative or historical analytical result is not a guarantee for every future batch.

4. Documentation and Verification

- **TDS:** published technical reference for initial product evaluation.
- **COA:** each shipment of electronic-grade copper oxide powder is accompanied by the COA for the applicable batch.
- **SDS:** review the applicable SDS before handling, storage, sample use, or shipment planning.
- **Third-party and transport documentation:** selected documentation may be reviewed after project evaluation. Each document applies only to its stated sample, date, test items, packaging, transport conditions, and method.

5. Sample and Process Validation

For sample evaluation, provide the intended application, destination, estimated monthly consumption, company information, and delivery address. Zhongan Copper reviews sample requests based on destination requirements, application, expected volume, buyer qualification, and project fit. Standard samples are generally 3–5 kg; larger quantities may be evaluated case by case. Sample provision does not constitute production approval or a final supply commitment.

6. Contact

Guixi Zhongan Copper Co., Ltd.

South of No. 18 Road and West of No. 9 Road, Copper Industry Recycling Base, Guixi Economic Development Zone, Yingtian City, Jiangxi Province, China

E-mail: zacopper.inquiry@gmail.com

This TDS is a public technical reference. Final supply is subject to the applicable batch COA, the agreed purchase specification, and confirmed commercial and logistics terms.