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CERTIFICATE OF QUALITY & ANALYSIS - ELECTROLYTIC COPPER CATHODES

CERTIFICATE REF: OT-COA-CU-GRADEA-20261028 | DATE OF ISSUE: 28 OCT 2026 | ORIGINAL ISSUE

EN 10204 3.1 COMPLIANT

PRODUCT DESCRIPTION:	Electrolytic Copper Cathodes (Cu-ETP / Class 1 / LME Grade A)	**BATCH / LOT NO:**	LOT-CU-2026-904
APPLICABLE STANDARDS:	BS EN 1978:1998 (Class Cu-CATH-1) / ASTM B115-00 (Class 1)	**INSPECTION AGENCY:**	Alex Stewart / SGS / CCIC
COMMERCIAL PURITY:	Purity: Min. 99.99 % Copper (Cu) by Difference (Actual 99.9938 %)	**TEST METHOD:**	Optical Emission Spectrometry
PHYSICAL DIMENSIONS:	914 mm x 914 mm x 12 mm approx. | Sheet Weight: 105 kg approx.	**DELIVERY BASIS:**	FOB / CIF Incoterms 2020
PACKAGING & STRAPPING:	Bundled approx. 2,000 kg - 2,500 kg strapped with high-tensile steel bands	**SAMPLE STATUS:**	Representative Bundle Sample
DESTINATION & DELIVERY:	Bonded Warehouse Transfer (Antrepo) / CIF Main European & Asian Ports		

1. IMPURITY CHEMICAL ANALYSIS (BS EN 1978:1998 / ASTM B115), PPM (MG/KG)

Element / Impurity	Chemical Symbol	BS EN 1978 Limit (ppm)	Actual Lab Result (ppm)
Copper Purity (by difference)	**Cu**	Min. 99.990 % (999,900 ppm)	**99.9938 % (PASS)**
Iron Content	Fe	Max. 10.0 ppm	**1.8 ppm**
Sulphur Content	S	Max. 15.0 ppm	**3.5 ppm**
Lead Content	Pb	Max. 5.0 ppm	**0.4 ppm**
Arsenic Content	As	Max. 5.0 ppm	**0.5 ppm**
Antimony Content	Sb	Max. 4.0 ppm	**0.3 ppm**
Bismuth Content	Bi	Max. 2.0 ppm	**0.2 ppm**
Nickel Content	Ni	Max. 10.0 ppm	**0.6 ppm**
Silver Content	Ag	Max. 25.0 ppm	**8.5 ppm**
Total Impurities (excluding Ag & O)	**Total Sum**	Max. 65.0 ppm	**28.5 ppm (COMPLIANT)**

2. PHYSICAL PROPERTIES & SURFACE EXAMINATION

- **Visual Surface Quality:** Cathodes are free from nodules, copper sulfate residue, and excessive oxidation. Clean metallic luster.
- **Bundle Packaging & Strapping:** Strapped tightly with four heavy-duty steel bands (32 mm). Pallet-free export bundles suitable for forklifts.
- **Electrical Conductivity:** Min. 100.5% IACS (International Annealed Copper Standard) at 20 degC - High electrical conductivity.
- **Non-Radioactivity:** Free of radioactive contamination; natural background radiation levels (< 0.18 uSv/h).
- **Tare / Gross Weight Audit:** Certified weighing on calibrated weighbridge prior to container sealing.

3. OFFICIAL CERTIFICATION OF CONFORMITY (LME GRADE A / ASTM B115)

We hereby certify that the electrolytic copper cathode lot referenced above conforms in all respects with BS EN 1978:1998 (Class Cu-CATH-1) and ASTM B115-00 standards. All spectroscopic laboratory analyses confirm copper purity >= 99.99 %.

LME GRADE A VERIFIED

Standard: BS EN 1978 / ASTM B115 Class 1
Purity: 99.9938 % Cu (Pass LME Standard)
Inspection: Independent Inspection at Port
Packaging: Standard Strapped Bundles

Status: ACCEPTED FOR COMMERCIAL RELEASE

COMMERCIAL OPERATIONS DESK:

Commercial Operations Desk
Orienta Metal Dis Ticaret San. Ltd. Sti.
Ref Stamp: OT-DOC-CU-2026

Official Seal / Signed on Dispatch

AUTHENTICITY & LEGAL NOTICE:

This document summarizes metallurgical inspection, laboratory test results and mill compliance data for the specified heat / lot. Mill Test Certificates according to EN 10204 3.1 and independent pre-shipment reports (SGS / CCIC) are provided with physical shipment.

AUTHORIZED SIGNATURE & STAMP

ORIENTA COMMERCIAL DESK
DOCUMENTATION VERIFIED
Date: 28 OCT 2026