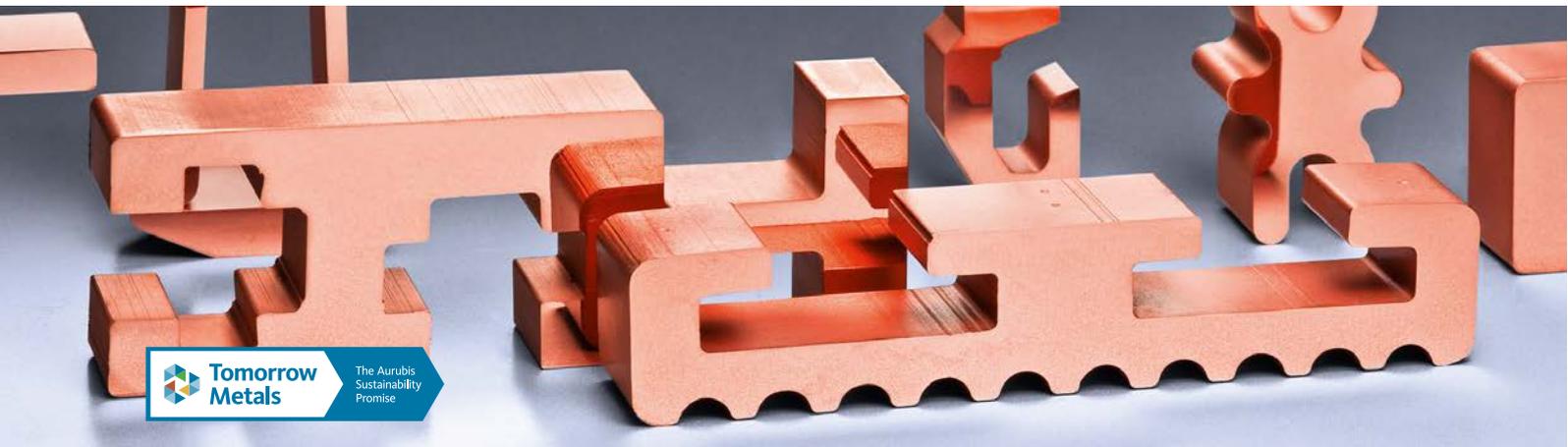


Environmental Footprint Declaration

Aurubis BARS & PROFILES



This document presents an environmental footprint declaration based on the results of a life cycle assessment (LCA) of bars and profiles (Aurubis BARS & PROFILES), developed in accordance with ISO 14040 and ISO 14044 standards and the principles of ISO 14025. No applicable Product Category Rules (PCR) were available at the time of publication.

1. General information

Product name	Bars and profiles (Aurubis BARS & PROFILES)
Declared unit	1 metric ton of bars and profiles
Manufacturer	Aurubis
Production site(s)	Aurubis plant in Olen, Belgium
LCA	Aurubis supported by Sphera
Publication date	13/10/2025
Time coverage	Reference calendar year 2024
Independent verifier	TÜV NORD CERT Prüf- und Umweltgutachtergesellschaft mbH
Review type	Critical review per ISO 14044 (Clause 6)

2. Methodology and scope

Applied standards/guidelines: The study was conducted in accordance with the ISO 14040 (ISO 14040:2021 Environmental management — Life cycle assessment — Principles and framework) and ISO 14044 (ISO 14044:2021 Environmental management — Life cycle assessment — Requirements and guidelines) LCA standards and the Environmental Footprint impact assessment method (3.1). The study is consistent with the methodology adopted by the International Copper Association.

Functional unit: 1 metric ton of bars and profiles at plant gate.

System boundaries: Cradle-to-gate life cycle inventory from the extraction of copper ore at the mine, the production of copper cathodes and processing to wire rod, to the production of bars and profiles. Excludes packaging, downstream use, and end-of-life.

Allocation procedures: No co-products are generated during bars and profiles production.

3. Product

Product description: Aurubis FOXROD copper rod from our own production is used as a preliminary product for Aurubis BARS & PROFILES. This rod is processed into bars and profiles using a continuous extrusion process.

Technical properties/applications: Material grade, ETP1 material with extremely low oxygen content, copper content: > 99.9 %.

Aurubis BARS & PROFILES provide copper solutions for electrical power systems as well as generators, substations, distribution systems, switchgear and conductor systems.

Expected service life: 50+ years (dependent on downstream application, e.g., in construction or electronics)

4. Environmental performance — impact results (per 1 metric ton bars and profiles)

Impact category	Unit	Result
Climate change	kg CO ₂ eq	1,399
Ozone depletion	kg CFC-11 eq	0.00000001
Human toxicity, cancer effects ¹	CTUh	0.000001
Human toxicity, non-cancer effects ¹	CTUh	0.00001
Particulate matter	Disease incidences	0.0002
Ionizing radiation	kBq U235 eq	135
Photochemical ozone formation	kg NMVOC eq	8.4
Acidification	mol H+ eq	11
Eutrophication (terrestrial)	mol N eq	33.9
Eutrophication (freshwater)	kg P eq	0.009
Eutrophication (marine)	kg N eq	3.1
Ecotoxicity (freshwater) ¹	CTUe	8,661
Land use ¹	Pt	4,819
Water use	m ³ world eq	1,094
Resource use, energy carriers	MJ	22,068
Resource use, mineral and metals ¹	kg Sb eq	0.8

¹ Impacts are not sufficiently robust and accurate to be used for metals.

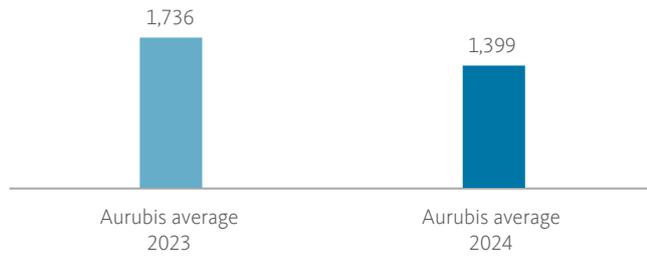
5. Environmental performance improvement and comparison with global average

The following graphs show the environmental improvements achieved by the company between 2023 and 2024 for bars and profiles production.

No industry average data is available for comparison.

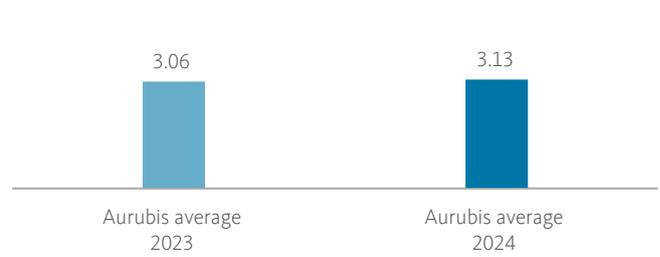
Carbon footprint

in kg CO₂ eq/t Cu



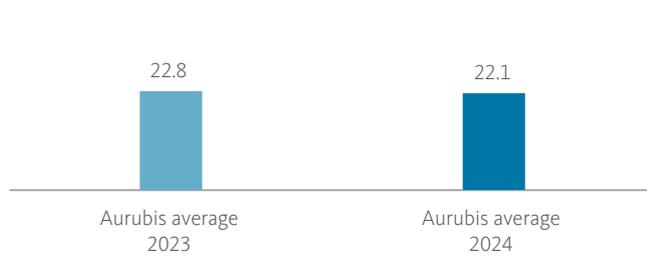
Eutrophication, marine

in kg N eq/t Cu



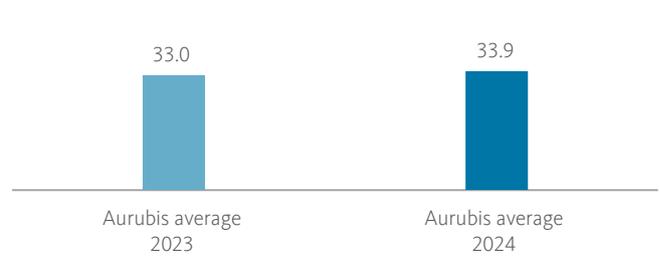
Resource use, fossils

in GJ/t Cu



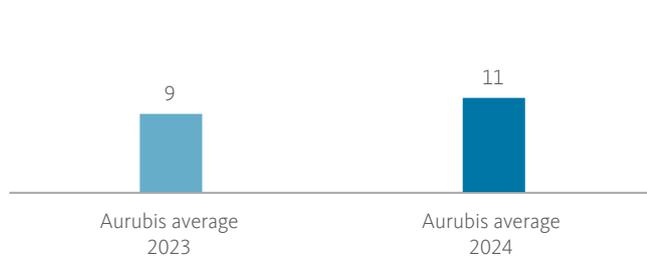
Eutrophication, terrestrial

in mole N eq/t Cu



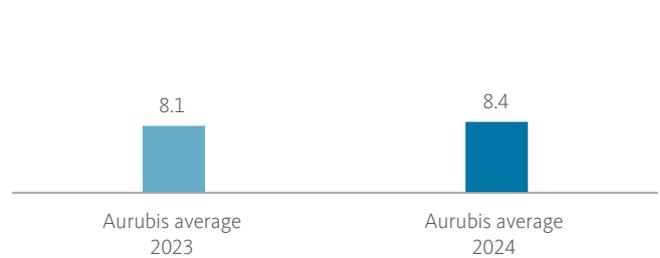
Acidification

in mole H⁺ eq/t Cu



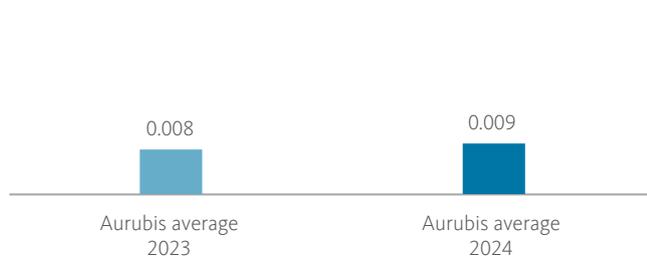
Summer smog

in kg NMVOC eq/t Cu



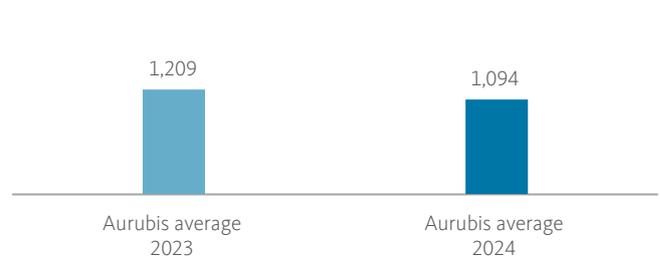
Eutrophication, freshwater

in kg P eq/t Cu



Water use

m³ world eq/t Cu



6. Additional environmental information

Recycled content: The recycled content of Aurubis BARS & PROFILES for calendar year 2024 was 68 %. The recycled content has been verified by TÜV Nord Cert on the basis of ISO 14021.

Environmental labels/Certifications: Aurubis Olen, the bars and profiles producing site, is certified to ISO 14001 and ISO 50001.

7. Interpretation and conclusions

The impact of the bars and profiles is dominated by the upstream copper cathode. Emissions associated with purchased electricity and grid mix also play an important role.

The updated environmental impact of Aurubis BARS & PROFILES for 2024 is lower than the profile from 2023 for most of the impact categories. This is mainly due to the lower profile of the Olen cathode, driven by higher recycled content.

Olen site operations have made a continuous effort to reduce direct emissions of pollutants such as dust as well as greenhouse gas emissions from cathode production and copper processing. Measures were implemented to save energy and switch to renewable energies.

8. Verification

Verification type	Critical review in accordance with ISO 14040 (2021) and ISO 14044 (2021)
Verifier name & organization	Dr. Winfried Hirtz, Michael Sommer TÜV NORD CERT Prüf- und Umweltgutachtergesellschaft mbH Am TÜV 1, 30519 Hannover, Germany Phone +49 (0) 511 986-1172 Email whirtz@tuev-nord.de; micsommer@tuev-nord.de
Date of verification	2/10/2025

The review confirmed that the LCA complies with the applicable standards and is scientifically and technically valid.

9. Disclaimer

This declaration has not been issued under a program operator and has not been verified in accordance with a PCR because none is available. The information is provided for transparency and B2B communication purposes.

10. Annexes

- A. LCA Report
- B. Results as per ISO 15804

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