

SELF-DECLARED ENVIRONMENTAL CLAIM

(TYPE II ENVIRONMENTAL LABEL)

KGHM Polska Miedź S.A. refined lead



This document contains an environmental footprint declaration based on the results of a life cycle assessment (LCA) of refined lead produced by KGHM Polska Miedź S.A., drawn up in accordance with ISO 14040 and ISO 14044 and the principles set out in ISO 14025.

General information

Product name	Refined lead
Declared unit	1 tonne of refined lead
Manufacturer	KGHM Polska Miedź S.A.
Production plant	KGHM Polska Miedź S.A., Legnica Copper Smelter Branch
Life cycle assessment (LCA)	SimaPro 10.3.0.1 Developer, Ecoinvent v. 3.12
Contractor carrying out the analysis	Institute of Mineral Resources and Energy Management, Polish Academy of Sciences, Kraków
Publication date	30 June 2026
Period covered by the analysis	2024
Verifier	Silk Road Certification Sp. z o.o.
Type of review	Critical review in accordance with ISO 14044

Methodology and scope

Standards/guidelines applied : The assessment was carried out in accordance with 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)

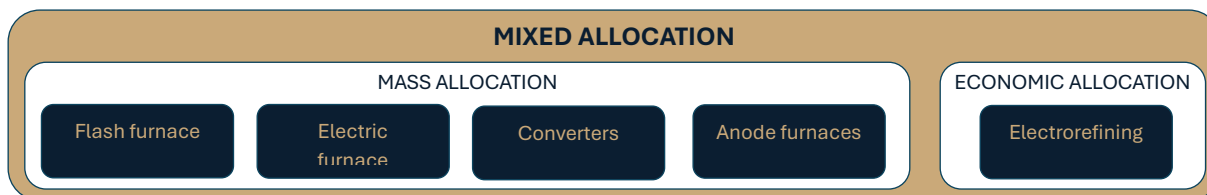
LCIA method: EF 3.1 Method (adapted) V1.05 / EF 3.1 normalisation and weighting set

Functional unit: 1 metric tonne of refined lead

System boundaries: A 'cradle-to-factory-gate' analysis of lead production, covering mining, beneficiation, transport, smelting, refining and associated processes.

Does not include packaging, subsequent use or end-of-life.

Allocation procedures:



Product

Product description	Primary refined lead in the following grades: PB985R (Pb min. 99.985%) and PB970R (Pb min. 99.970%)
Minimum Pb content	99.97%
Standard	Refined lead meets the requirements of standard PN-EN 12659
Form	Dimensions of lead ingots/bars: 615 x 95 x 80 mm, approximate weight: ~40 kg.
Purity	In accordance with the PN-EN 12659 standard
Feedstock	Raw lead sourced from the Głogów Copper Smelter
Packaging	The lead is supplied in bundles weighing approx. 1,000 kg.

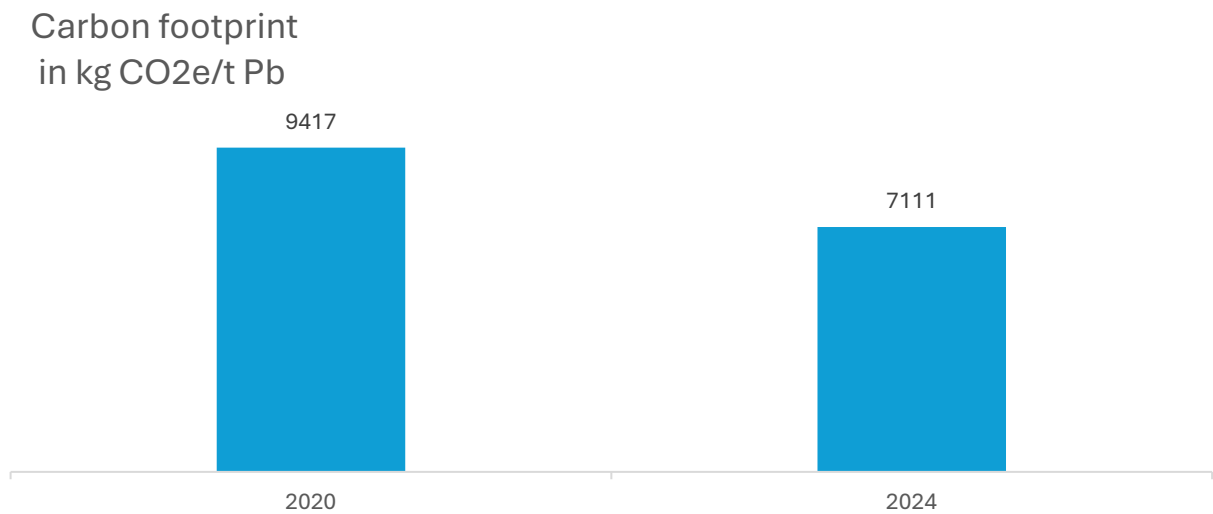
POTENTIAL ENVIRONMENTAL IMPACT

1 METRIC TONNE OF REFINED LEAD

CHARACTERISED RESULTS OF IMPACT CATEGORY INDICATORS

IMPACT CATEGORY (EN)	QUANTITY	UNIT
CLIMATE CHANGE	7111.43	kg CO ₂ eq
ACIDIFICATION (EXCLUDING FATE)	27.85	mol H ⁺ eq
EUTROPHICATION, FRESHWATER	0.55	kg P eq
OZONE DEPLETION	0.00026	kg CFC-11 eq
PHOTOCHEMICAL OXIDATION	23.78	kg NMVOC
RESOURCE USE, MINERALS AND METALS	0.56	kg Sb eq
RESOURCE USE, FOSSIL	102,091.52	MJ
WATER USE	-1,487.82	m ³ deprived

Carbon footprint – improvement



Additional environmental information

KGHM Polska Miedź S.A., HM Legnica Branch, holds Integrated Management System certificates confirming compliance with the requirements of the following standards: ISO 9001, ISO 14001, ISO 45001, ISO 50001 and ISO 22301 in relation to the products manufactured and processes carried out. The Legnica Copper Smelter Branch also holds Copper Mark certification. All our certificates are available at: www.kghm.com

Verification

Type of verification	Critical review in accordance with ISO 14040 (2021) and ISO 14044 (2021)
Verifier	Elżbieta Jezieniecka-Baryluk Silk Road Certification Sp. z o.o. 17 Lubieniecka Street 44-102 Gliwice
Date of verification	30 June 2026

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