

SELF-DECLARED ENVIRONMENTAL CLAIM

(TYPE II ENVIRONMENTAL LABEL)

KGHM Polska Miedź S.A. Technical selenium



This document contains an environmental footprint declaration based on the results of a life cycle assessment (LCA) of selenium 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	Technical selenium
Declared unit	1 tonne of technical selenium
Manufacturer	KGHM Polska Miedź S.A.
Production plant	KGHM Polska Miedź S.A., Głogów 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)

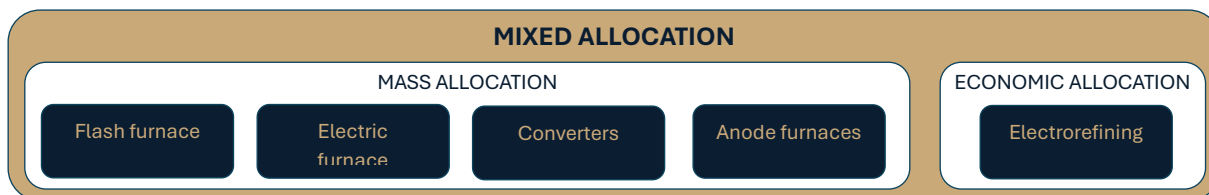
LCIA method: EF 3.1 Method (adapted) V1.05 / EF 3.1 normalisation and weighting set

Functional unit: 1 metric tonne of technical selenium

System boundaries: A 'from source to plant gate' analysis of selenium production, covering extraction, enrichment, transport, smelting, refining and associated processes.

Excludes packaging, subsequent use and end-of-life.

Allocation procedures:



Product

Product name	Technical selenium
Minimum Se content	99.40%
Physical properties	Moist, blackish-grey powder
Purity	Se – min. 99.40% (typical content 99.5%–99.9%), Ag – max 0.08%, Pb – max 0.05%*, As – max 0.04%, S – max 0.1%, Cu – max 0.4%, Sb – max 0.1%, Fe – max 0.05%, Te – max 0.5% Moisture content: max 22.0% *typical Pb content <0.01%.
Packaging	Drums weighing approx. 150–200 kg

POTENTIAL ENVIRONMENTAL IMPACT

1 METRIC TONNE OF TECHNICAL SELENIUM

CHARACTERISED RESULTS OF IMPACT CATEGORY INDICATORS

IMPACT CATEGORY (EN)	QUANTITY	UNIT
CLIMATE CHANGE	7435.81	kg CO ₂ eq
ACIDIFICATION (EXCLUDING TAX)	189.20	mol H ⁺ eq
EUTROPHICATION, FRESHWATER	0.70	kg P eq
OZONE DEPLETION	0.00023	kg CFC-11 eq
PHOTOCHEMICAL OXIDATION	33.23	kg NMVOC
RESOURCE USE, MINERALS AND METALS	0.43	kg Sb eq
RESOURCE USE, FOSSIL	109,619.23	MJ
WATER USE	4398.76	m ³ deprived

Additional environmental information

KGHM Polska Miedź S.A., HM Głogów 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 Głogów 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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