

# SELF-DECLARED ENVIRONMENTAL CLAIM

(TYPE II ENVIRONMENTAL LABEL)

concerning  
environmental aspects and potential life cycle impact

**Cu-OFE wire**  
**CuAg wire**

**PRODUCER:**

**KGHM Polska Miedź S.A.**

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**BACKGROUND INFORMATION:**

**Date of the study:** 10.03.2023

**Normative reference:** PN-EN ISO 14001:2015

**Prepared on the basis of:** results of the LCA environmental life cycle assessment study\*

**Method LCIA:** EF 3.0 Method (adapted) V1.03 / EF 3.0 normalization and weighting set

**Analysis scope:** from cradle to gate

**Type of analysis:** self-declared environmental claim (#3.1.16 PN-EN ISO 14021:2016-06)

**Declared product life:** 10 years

**Functional unit:** 1 ton of Cu-OFE wire and 1 ton CuAg wire

**Economic allocation:** 78.09% Cu-OFE wire, 21.91% CuAg wire

\* Report on the study; MEERI PAS; Cracow 2023

**INPUTS AND OUTPUTS FOR PRODUCTION OF 1 TON Cu-OFE WIRE**

	AMOUNT	UNIT
<b>PROCESS INPUTS</b>		
<i>Electricity</i>	1.48	GJ
<i>Industrial water</i>	1.08	m <sup>3</sup>
<i>Copper cathode</i>	1154.98	kg

**INPUTS AND OUTPUTS FOR PRODUCTION OF 1 TON CuAg WIRE**

	AMOUNT	UNIT
<i>WEJŚCIA DO PROCESU</i>		
<i>Electricity</i>	1.54	GJ
<i>Industrial water</i>	1.12	m <sup>3</sup>
<i>Copper cathode</i>	1198.15	kg

**POTENTIAL ENVIRONMENTAL IMPACT OF 1 TON Cu-OFE WIRE**

CHARACTERIZED RESULTS OF IMPACT CATEGORY INDICATORS

IMPACT CATEGORY	AMOUNT	UNIT
CLIMATE CHANGE	3091.07	kg CO <sub>2</sub> eq
ACIDIFICATION	16.52	mol H <sup>+</sup> eq
EUTROPHICATION (FRESHWATER)	0.28	kg P eq
OZONE DEPLETION	0.00	kg CFC11 eq
PHOTOCHEMICAL OXIDATION	8.42	kg NMVOC
RESOURCE USE, MINERALS AND METALS	0.62	kg Sb eq
RESOURCE USE, FOSSIL	39863.30	MJ
WATER USE	2882.73	m <sup>3</sup> depriv.

**POTENTIAL ENVIRONMENTAL IMPACT OF 1 TON CuAg WIRE**

CHARACTERIZED RESULTS OF IMPACT CATEGORY INDICATORS

IMPACT CATEGORY	AMOUNT	UNIT
CLIMATE CHANGE	3206.61	kg CO <sub>2</sub> eq
ACIDIFICATION	17.14	mol H <sup>+</sup> eq
EUTROPHICATION (FRESHWATER)	0.29	kg P eq
OZONE DEPLETION	0.00	kg CFC11 eq
PHOTOCHEMICAL OXIDATION	8.73	kg NMVOC
RESOURCE USE, MINERALS AND METALS	0.64	kg Sb eq
RESOURCE USE, FOSSIL	41353.36	MJ
WATER USE	2990.48	m <sup>3</sup> depriv.



# ENVIRONMENTAL CERTIFICATE

Mineral and Energy Economy Research Institute of Polish Academy of Sciences  
certifies that

**KGHM Polska Miedź SA**  
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in terms of  
**Cu-OFE wire**  
**CuAg wire**

identifies environmental aspects and assesses potential environmental impacts using a Life  
Cycle Thinking (LCT)  
taking into account  
**PN-EN ISO 14040:2009 and PN-EN ISO 14044:2009**

results communicate as  
**SELF-DECLARED ENVIRONMENTAL CLAIM**  
(TYPE II ENVIRONMENTAL LABEL, PN-EN ISO 14021:2016)  
being an integral part of this certificate

Date of issue: 10.03.2023  
Due date: 10.03.2026

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(verifier)

  
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Director IGSMiE PAN