

Client:

**Date: 19.07.2023**

**Certificate of Analysis No.: 0002835-1**

Goods: Ultrafine Copper Powder Lot # 1665/2/Cu

Quantity: 1000kg net out of 5400kg\*

Sample: Sample taken by IGAS research from Boxes: 14, 19, 51, 56, 77, 91, 107 and 135 in Magdeburg/Germany

\* according to information given by customer

Measured with ICP/OES

**Result of Analysis:**

Element	Measured Value [ppm]
Ag	8
Al	< 1
As	1
Au	< 0,1
B	< 0,5
Ba	< 0,5
Bi	< 2
Ca	12
Cd	< 0,1
Co	< 0,1

Element	Measured Value [ppm]
Cr	< 0,1
Fe	2
Hg	< 1
K	< 1
Li	< 0,1
Mg	< 1
Mn	< 0,1
Mo	< 0,1
Na	< 1
Ni	< 0,5

Element	Measured Value [ppm]
P	< 1
Pb	< 1
S	19
Sb	1
Sn	< 1
Sr	< 0,1
Ti	< 0,1
V	< 0,5
Zn	< 0,1
Zr	< 0,2

The chemical purity, calculated taking into account the elements Al, Cd, Fe, Mg, Mo, Ni, Sb, Ti, Zn (according to „TU 1793-011-50316079-2004“) is

**99.9997%**

The isotopic composition of this sample is that of natural copper:

**<sup>63</sup>Cu 69.1 % □ 0.05 % and <sup>65</sup>Cu 30.9 % □ 0.05 %**

**The material is not radioactive!**



Inhaber  
Dr. Ernst Joachim Martin  
Ust.Ident-Nr.: DE267751897  
St.-Nr.: 21/128/02253

Sitz der Gesellschaft  
Landstraße 88a  
D-38644 Goslar  
Amtsgericht Braunschweig  
ID-Nr.: 301356

Kontakt  
Telefon: +49 (0) 53 21 / 33 03 00  
Skype: igasresearch  
www.igasresearch.de  
info@igasresearch.de  
info@rarermetals.de

Bankverbindung  
Volksbank im Harz eG, Osterode  
BLZ 268 914 84  
Konto 009 172 490 0  
IBAN: DE93 2689 1484 0091 7249 00  
BIC (Swift): GENODEF1OHA