

Client:

Date: 25.01.2019

Certificate of Analysis No.: 0003719

Goods: Ultrafine Copper Powder #1665/2/Cu

Quantity: 2000kg

50 boxes, 40 kg per box, 20 PET container per 2 kg

Sample: Mixed sample taken by IGAS research in Magdeburg/Germany (ProSafe)

**Net weight according to data supplied 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, based on the determined impurities Al, Cd, Fe, Mg, Mo, Ni, Sb, Ti, Zn (TU 1793-011-50316079-2004) is:

99,9997%

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

^{63}Cu 69,1 % $\pm$ 0,05 % and ^{65}Cu 30,9 % $\pm$ 0,05 %

The material is not radioactive!

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