

Client:

Technologikal Standard Ltd.
Mr. Vladimir Medvedev
st. Televisornaya 1/26
Krasnoyarsk City
Russian Federation

Date: 26.09.2011

Certificate of Analysis No.: 0000852

Goods: Ultrafine Copper Powder PMU Partie No. 1

**Quantity: 480kg * 20 boxes @6 ampoules =
120 ampoules @ 4kg net weight**

***Net weight corresponds with data of
Customer**

Sample: Mix sample , 3 ampoules for testing

Measured with ICP/OES
Result of Analysis:

Element	Measured Value [ppm]
Ag	7
Al	< 0.1
As	< 0.5
Au	< 0.1
B	< 0.1
Ba	< 0.1
Bi	< 1
Ca	< 0.1
Cd	< 0.3
Co	< 0.1

Element	Measured Value [ppm]
Cr	< 0.01
Fe	< 0.1
Hg	< 0.5
K	< 0.1
Li	< 0.1
Mg	< 0.1
Mn	< 0.01
Mo	< 0.5
Na	< 0.1
Ni	< 0.1

Element	Measured Value [ppm]
P	< 0.5
Pb	43
S	5
Sb	2
Sn	< 0.5
Sr	< 0.01
Ti	< 0.1
V	< 0.01
Zn	< 0.01
Zr	< 0.1

The chemical purity, based on the determined impurities Al, Cd, Fe, Mg, Mo, Ni, Sb, Ti, Zn is:

99.9998%

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D-38644 Goslar
Sign

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

⁶³Cu 69.1 % ± 0.05 % and ⁶⁵Cu 30.9 % ± 0.05 %

The material is not radioactive

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Geschäftsführung
Dr. Ernst Joachim Martin

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