



INSTITUTE OF NON-FERROUS METALS

Analytical Chemistry Department
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CERTIFICATE OF ANALYSIS

Chemical copper reference material
Series Cu Z00/4

Mean oxygen content	195,6 ppm
Average laboratory deviation	14,1 ppm
Half confidence interval of arithmetic mean	5,9 ppm

The analytical methods applied for oxygen determination:

- reduction melting in nitrogen or argon atmospheres (LECO Analysers RO-16, RO-17);
- vacuum reduction melting (Balzers Analysers EA-1, EA0-202);
- neutron activation.

Each package contains 4 reference materials in form of rods 8mm x 100mm.

Director of the Institute

Prof. Ph.D. Zbigniew Śmieszek