



INSTITUTE OF NON-FERROUS METALS

Analytical Chemistry Department
44-101 Gliwice, ul. Sowińskiego 5

CERTIFICATE OF ANALYSIS

Chemical copper reference material
Series Cu 90/1

Mean sulphur content	83,7 ppm
Half confidence interval of arithmetic mean	0,8 ppm

Sulphur was determined by means of method of combustion in oxygen, using the following measuring techniques:

- conductometric (Wosthoff Analysers-sulmhomal 12ADG);
- spectrophotometric (LECO Analysers CS-46, IR-32);
- spectrophotometric with astrazon red and rozaniline.

Each package contains 250 g of reference material in form of chips.

Director of the Institute

Prof. Ph.D. Zbigniew Smieszek