



INSTITUTE OF NON-FERROUS METALS

Analytical Chemistry Department
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CERTIFICATE OF ANALYSIS

Converter copper

The average results of chemical analyses in wt %

No. Element	CH 6	CH 7	CH 8	CH 9
Pb	0,50	1,01	1,49	1,97
Fe	0,028	0,11	0,0012	0,0060
Co	0,18	0,11	0,020	0,0060
Zn	0,19	0,047	0,077	0,015
Ni	0,40	0,18	0,036	0,010
Ag	0,18	0,40	0,039	0,010
Cu	the rest	the rest	the rest	the rest

Director of the Institute

Prof. Ph.D. Zbigniew Śmieszek

The confidence intervals in wt % at the probability level of 0,05

No. Element	CH 6	CH 7	CH 8	CH 9
Pb	0,0081	0,041	0,031	0,081
Fe	0,0013	0,0068	--	0,00062
Co	0,0041	0,0092	0,00092	0,00043
Zn	0,012	0,0014	0,0021	0,00070
Ni	0,014	0,0074	0,0092	0,00044
Ag	0,0068	0,0061	0,0070	0,00097

Analytical methods applied:

Pb - atomic absorption

Fe - atomic absorption

Co - atomic absorption

Ni - atomic absorption

Ag - atomic absorption

Zn - atomic absorption

The chemical analyses have been carried out in three industrial laboratories and at the Institute of Non-Ferrous Metals.

The set consists of 4 reference materials in form of rods 10 mm in diameter and 100 mm long.