



INSTITUTE OF NON-FERROUS METALS

Analytical Chemistry Department
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CERTIFICATE OF ANALYSIS

Electrolytic zinc

The average results of chemical analyses in wt %

Element ^{No}	ZA 1	ZA 2	ZA 3	ZA 4
Pb	0,031	0,011	0,0028	0,0016
Cd	0,0092	0,0029	0,00092	0,00049
Fe	0,0013	0,0061	0,00078	0,00040
Cu	0,0041	0,0013	0,00011	0,00032
Sn	0,0032	0,0012	0,00036	0,00011

Director of the Institute

Prof. Ph.D. Zbigniew Śmieszek

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

Element ^{No}	ZA 1	ZA 2	ZA 3	ZA 4
Pb	0,00098	0,0010	0,00012	0,00011
Cd	0,00042	0,00015	0,000043	0,000052
Fe	0,000087	0,00023	0,000064	0,000037
Cu	0,00019	0,000095	0,000018	0,000022
Sn	0,00013	0,000093	0,000031	0,000012

Analytical methods applied:

Pb - atomic absorption and polarographic;

Cd - atomic absorption and polarographic;

Fel - atomic absorption and photometric with sulfosalicylic acid;

Cu - electrolysis and titration;

Sn - atomic absorption and spectrophotometric with phenylfluoran.

The chemical analyses have been carried out in four 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.