



INSTITUTE OF NON-FERROUS METALS

Analytical Chemistry Department
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CERTIFICATE OF ANALYSIS

Hard lead

The average results of chemical analyses in wt %

No. Element	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6
Sn	0,59	0,50	0,38	0,31	0,21	0,40
Sb	0,053	0,27	0,49	0,70	0,89	0,53
Pb	the rest					

Director of the Institute

Prof. Ph.D. Zbigniew Smieszek

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

No. Element	PE 1	PE 2	PE 3	PE 4	PE 5	PE 6
Sn	0,011	0,020	0,030	0,031	0,011	0,035
Sb	0,0040	0,030	0,025	0,035	0,040	0,040

Analytical methods applied:

Sn - titration, atomic absorption

Sb - titration, atomic absorption

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

The set consists of 6 reference materials in form of discs 40 mm in diameter and 28 mm in height.