



INSTITUTE OF NON-FERROUS METALS

Analytical Chemistry Department
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CERTIFICATE OF ANALYSIS

Sn-Zn-Pb bronze

The average results of chemical analyses in wt %

Element	No	Sn	Zn	Pb
BG 1		6,25	4,31	3,82
BG 2		4,87	7,43	2,73
BG 3		4,11	5,40	2,39
BG 4		4,95	5,41	4,53
BG 5		3,03	7,79	6,70
BG 6		1,97	6,74	2,33
BG 7		4,11	7,45	5,42

Director of the Institute

Prof. Ph.D. Zbigniew Śmieszek

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

Element	No	Sn	Zn	Pb
	BG 1	0,11	0,035	0,047
	BG 2	0,11	0,094	0,14
	BG 3	0,066	0,15	0,13
	BG 4	0,14	0,11	0,11
	BG 5	0,059	0,085	0,11
	BG 6	0,061	0,13	0,059
	BG 7	0,064	0,094	0,15

Analytical methods applied:

Sn - atomic absorption, OES spectrometry

Zn - atomic absorption, OES spectrometry

Pb - atomic absorption, OES spectrometry

The chemical analyses have been carried out at the Institute of Non-Ferrous Metals and one industrial laboratory. The set consists of 7 reference materials in form of discs 40 mm in diameter and 30 mm in height.