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Lead Concentrate

Art. ID	CANMET-CPB-3
Unit	100 g
Deliverydetails	No Dangerous Good /not restricted

Description

CANMET-CPB-3 is a certified reference material for a lead concentrate donated by a North American refinery. The mineral species include: anglesite (3.9%), galena (65.5%), hematite (3.9%), pyrite (9.2%), quartz (2.0%), siderite (5.6%), other silicates (0.9%), sphalerite (8.7%), and tetrahedrite - tennantite (0.4%). CANMET-CPB-3 is suitable for the analysis of lead concentrates for lead and other elements at concentrations ranging from major, minor to trace levels. Examples of intended use include quality control and method development.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
certified value / Only data derived from fire assay was included, based on statistical tests.	Silver (Ag)	[7440-22-4]	2790 ± 11	µg/g		
certified value	Aluminium (Al)	[7429-90-5]	0,203 ± 0,005	%		
certified value	Calcium (Ca)	[7440-70-2]	0,059 ± 0,004	%		
certified value	Cadmium (Cd)	[7440-43-9]	0,0652 ± 0,001	%		
certified value	Cobalt (Co)	[7440-48-4]	13,6 ± 0,6	µg/g		
certified value	Chromium (Cr)	[7440-47-3]	0,0102 ± 0,0006	%		
certified value	Copper (Cu)	[7440-50-8]	0,24 ± 0,003	%		
certified value	Iron (Fe)	[7439-89-6]	8,45 ± 0,07	%		
certified value / All data was derived from various types of acid digestions only.	Mercury (Hg)	[7439-97-6]	40,8 ± 1,2	µg/g		
certified value	Magnesium (Mg)	[7439-95-4]	0,1062 ± 0,0025	%		
certified value	Nickel (Ni)	[7440-02-0]	16,8 ± 0,8	µg/g		
certified value / Only data derived from ISO 13545:2000, and various similar digestion and titration methods was included, based on statistical tests.	Pb as received, classical		57,94 ± 0,09	%		
certified value / Only data derived from ISO 1	Pb dry mass - correction, calculated, classica		58,02 ± 0,09	%		

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3545:2000, and various similar digestion and t itration methods was in cluded, based on statis tical tests. The data w as corrected for moistu re.	l			
certified value / Only data using (i) various acid digestions followe d by atomic absorption spectrometry or inducti vely coupled plasma – o ptical emission spectro metry, or (ii) fusion o r fused pellet followed by X-ray fluorescence was included, based on statistical tests.	Pb as received, instrum ental		58,53 ± 0,33	%
certified value	Antimony (Sb)	[7440-36-0]	0,58 ± 0,01	%
certified value	SiO2		2,62 ± 0,04	%
certified value	Zinc (Zn)	[7440-66-6]	5,96 ± 0,05	%