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Zinc-Aluminum Alloy (chips)

Art. ID	CANMET-NZA-4C
Unit	80 g
Deliverydetails	No Dangerous Good /not restricted

Description

Seven zinc-aluminum (ZA) alloys were cast as reference materials for chemical composition by the Noranda Research Centre, Noranda Inc. and donated to the Canadian Certified Reference Materials Project. These were sectioned into discs suitable for use in calibration and quality assurance applications, particularly for emission spectrometry methods. The trimmed discs are 50 mm diameter by 12 mm thickness (2 x 1/2). Concentrations were established for a pre-defined measurement annulus exterior to the 6.4 mm (1/4 inch) radius. The measurement annulus from a representative fraction of the discs was machined into chips, blended and bottled in 80-gram units to provide reference samples suitable for use in wet-chemical methods.In a fourteen-laboratory measurement program, recommended values were established for the concentrations of three alloy constituents (aluminum, copper and magnesium) and four impurity constituents (iron, tin, lead and cadmium).

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Recommended values	Aluminium (Al)	[7429-90-5]	26,65	%		
Recommended values	Copper (Cu)	[7440-50-8]	2,45	%		
Recommended values	Magnesium (Mg)	[7439-95-4]	0,0106	%		
Recommended values	Iron (Fe)	[7439-89-6]	0,027	%		
Recommended values	Tin (Sn)	[7440-31-5]	0,0087	%		
Recommended values	Lead (Pb)	[7439-92-1]	0,0101	%		
Recommended values	Cadmium (Cd)	[7440-43-9]	0,0029	%		