

Copper concentrate

Art. ID	CANMET-CCU-1e
Unit	200 g
Deliverydetails	No Dangerous Good /not restricted

Description

CCU-1e is a copper concentrate from the Flin Flon mill, Manitoba, and donated by Hudson Bay Mining and Smelting Company, Limited, Flin Flon, Manitoba, Canada. The raw material for CCU-1e was obtained from the same company as its predecessor, CCU-1d. The mineral species include: chalcopyrite (63.2%), pyrite (21.6%), sphalerite (4.6%), mawsonite (2.8%), pyrrhotite and pyroxene (both at 2.7%), galena (0.6%), fergusonite (0.4%), chlorite (0.3%), arsenopyrite, magnetite and quartz (all at 0.2%), ankerite, calcite and hornblende (all at 0.1%), biotite (0.05%), plagioclase (0.04%), dolomite and riebeckite (both at 0.03%), albite, epidote, hematite and siderite (all at 0.02%), and allanite, annite, ilmenite, orthoclase and an unidentified mineral (all at 0.01%). CCU-1e is suitable for the analysis of copper and various elements at major, minor and trace levels in copper concentrates. Examples of intended use include quality control and method development.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Silver (Ag)	[7440-22-4]	205,2	µg/g		
	Aluminium (Al) no AD2a		0,1385	%		
	Gold (Au)	[7440-57-5]	20,27	µg/g		
	Calcium (Ca)	[7440-70-2]	0,129	%		
	Cadmium (Cd)	[7440-43-9]	74,2	µg/g		
	Cobalt (Co) non AD2		301	µg/g		
	Copper (Cu) classical		23,07	%		
	Copper (Cu) instrum		22,88	%		
	Iron (Fe) all		30,7	%		
	Mercury (Hg)	[7439-97-6]	10,4	µg/g		
	Magnesium (Mg)	[7439-95-4]	0,706	%		
	Manganese (Mn) non AD2		96	µg/g		
	Lead (Pb)	[7439-92-1]	0,703	%		
	Sulfur (S) all		35,28	%		
	Sulfur (S) COMB		35,52	%		
	Antimony (Sb)	[7440-36-0]	104	µg/g		
	SiO ₂		3,134	%		
	Tellurium (Te)	[13494-80-9]	61,8	µg/g		
	Thallium (Tl)	[7440-28-0]	2,69	µg/g		
	Zinc (Zn)	[7440-66-6]	3,02	%		
	Arsenic (As)	[7440-38-2]	0,101	%		
	Carbon (C)	[7440-44-0]	0,1	%		