

**Cu 2.97% Co 366ppm Sulphide Copperbelt ZM, Matrix Group: Copperbelt**

Art. ID AMIS-0809  
Unit 1 kg  
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Aluminium (Al)	[7429-90-5]	1,04 ± 0,032	%	4-acid digestion with either ICP-OES/ICPMS/AAS finish	
	Antimony (Sb)	[7440-36-0]	2 ± 0,1	ppm	4-acid digestion with either ICP-OES/ICPMS/AAS finish	
	Antimony (Sb)	[7440-36-0]	0,0002 ± 0,00001	%	4-acid digestion with either ICP-OES/ICPMS/AAS finish	
	Arsenic (As)	[7440-38-2]	35 ± 3	ppm	Fusion digestion with either ICP-OES/ICPMS/AAS finish	
	Arsenic (As)	[7440-38-2]	0,0035 ± 0,0003	%	Fusion digestion with either ICP-OES/ICPMS/AAS finish	
	Barium (Ba)	[7440-39-3]	21 ± 2	ppm	4-acid digestion	

				estion wit h either I CPOES/ICPM S/AAS fini sh
Barium (Ba)	[7440-39-3]	0,0021 ± 0,0002	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Beryllium (Be)	[7440-41-7]	0,2 ± 0,07	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Beryllium (Be)	[7440-41-7]	0,00002 ± 0,000007	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Bismuth (Bi)	[7440-69-9]	1 ± 0,06	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Bismuth (Bi)	[7440-69-9]	0,0001 ± 0,000006	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Cadmium (Cd)	[7440-43-9]	0,2 ± 0,02	ppm	4-acid dig estion wit h either I

					CPOES/ICPM S/AAS fini sh
Cadmium (Cd)	[7440-43-9]	0,00002 ± 0,000002	%		4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Caesium (Cs)	[7440-46-2]	0,1 ± 0,02	ppm		4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Caesium (Cs)	[7440-46-2]	0,00001 ± 0,000002	%		4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Calcium (Ca)	[7440-70-2]	18,15 ± 0,23	%		4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Calcium (Ca)	[7440-70-2]	18,61 ± 0,28	%		Fusion digestion with either I CPOES/ICPM S/AAS fini sh
Carbon (C)	[7440-44-0]	6,33 ± 0,25	%		Combustion /LECO
Chromium (Cr)	[7440-47-3]	99 ± 14	ppm		4-acid digestion with either I

				CPOES/ICPM S/AAS fini sh
Chromium (Cr)	[7440-47-3]	131 ± 14	ppm	Fusion digestion with either I CPOES/ICPM S/AAS fini sh
Chromium (Cr)	[7440-47-3]	0,0099 ± 0,0014	%	4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Chromium (Cr)	[7440-47-3]	0,0131 ± 0,0014	%	Fusion digestion with either I CPOES/ICPM S/AAS fini sh
Cobalt (Co)	[7440-48-4]	369 ± 12	ppm	Fusion digestion with either I CPOES/ICPM S/AAS fini sh
Cobalt (Co)	[7440-48-4]	366 ± 18	ppm	4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Cobalt (Co)	[7440-48-4]	349 ± 39	ppm	2-acid digestion with either I CPOES/ICPM S/AAS fini

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Cobalt (Co)	[7440-48-4]	0,0369 ± 0,0012	%	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Cobalt (Co)	[7440-48-4]	0,0366 ± 0,0018	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Cobalt (Co)	[7440-48-4]	0,0349 ± 0,0039	%	2-acid digestion with either ICP-OES/ICP-MS/AAS finish
Copper (Cu)	[7440-50-8]	3,06 ± 0,074	%	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Copper (Cu)	[7440-50-8]	2,97 ± 0,043	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Copper (Cu)	[7440-50-8]	3,09 ± 0,039	%	XRF
Copper (Cu)	[7440-50-8]	3,01 ± 0,11	%	2-acid digestion with either ICP-OES/ICP-MS/AAS finish

Copper (Cu)	[7440-50-8]	1332 ± 135	ppm	Acid Soluble
Copper (Cu)	[7440-50-8]	0,1332 ± 0,0135	%	Acid Soluble
Gold (Au)	[7440-57-5]	0,314 ± 0,072	g/t	Fire Assay Pb Collection - ICP /AAS Finish
Indium (In)	[7440-74-6]	1 ± 0,04	ppm	4-acid digestion with either ICP-OES/ICPMS/AAS finish
Indium (In)	[7440-74-6]	0,0001 ± 0,000004	%	4-acid digestion with either ICP-OES/ICPMS/AAS finish
Iron (Fe)	[7439-89-6]	5,69 ± 0,21	%	4-acid digestion with either ICP-OES/ICPMS/AAS finish
Iron (Fe)	[7439-89-6]	5,69 ± 0,043	%	Fusion digestion with either ICP-OES/ICPMS/AAS finish
Lead (Pb)	[7439-92-1]	29 ± 2	ppm	4-acid digestion with either ICP-OES/ICPMS/AAS finish

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Lead (Pb)	[7439-92-1]	27 ± 4	ppm	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Lead (Pb)	[7439-92-1]	0,0029 ± 0,0002	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Lead (Pb)	[7439-92-1]	0,0027 ± 0,0004	%	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Lithium (Li)	[7439-93-2]	3 ± 0,3	ppm	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Lithium (Li)	[7439-93-2]	0,0003 ± 0,00003	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
LOI		13,6 ± 0,33	%	
Magnesium (Mg)	[7439-95-4]	1,22 ± 0,064	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish

Magnesium (Mg)	[7439-95-4]	1,2 ± 0,048	%	Fusion digestion with either I CPOES/ICPM S/AAS finish
Manganese (Mn)	[7439-96-5]	1065 ± 65	ppm	4-acid digestion with either I CPOES/ICPM S/AAS finish
Manganese (Mn)	[7439-96-5]	1053 ± 19	ppm	Fusion digestion with either I CPOES/ICPM S/AAS finish
Manganese (Mn)	[7439-96-5]	0,1065 ± 0,0065	%	4-acid digestion with either I CPOES/ICPM S/AAS finish
Manganese (Mn)	[7439-96-5]	0,1053 ± 0,0019	%	Fusion digestion with either I CPOES/ICPM S/AAS finish
Molybdenum (Mo)	[7439-98-7]	100 ± 2	ppm	4-acid digestion with either I CPOES/ICPM S/AAS finish
Molybdenum (Mo)	[7439-98-7]	98 ± 4	ppm	Fusion digestion with either I CPOES/ICPM S/AAS finish



				h either I CPOES/ICPM S/AAS fini sh
Molybdenum (Mo)	[7439-98-7]	0,01 ± 0,0002	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Molybdenum (Mo)	[7439-98-7]	0,0098 ± 0,0004	%	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Nickel (Ni)	[7440-02-0]	322 ± 18	ppm	2-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Nickel (Ni)	[7440-02-0]	310 ± 12	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Nickel (Ni)	[7440-02-0]	312 ± 9	ppm	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Nickel (Ni)	[7440-02-0]	0,0322 ± 0,0018	%	2-acid dig estion wit h either I CPOES/ICPM

				S/AAS fini sh
Nickel (Ni)	[7440-02-0]	0,031 ± 0,0012	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Nickel (Ni)	[7440-02-0]	0,0312 ± 0,0009	%	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Niobium (Nb)	[7440-03-1]	1 ± 0,1	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Niobium (Nb)	[7440-03-1]	0,0001 ± 0,00001	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Phosphorus (P)	[7723-14-0]	291 ± 28	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Phosphorus (P)	[7723-14-0]	0,0291 ± 0,0028	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh

Rhenium (Re)	[7440-15-5]	0,04 ± 0,01	ppm	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Rhenium (Re)	[7440-15-5]	0,000004 ± 0,000001	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Scandium (Sc)	[7440-20-2]	19 ± 0,4	ppm	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Scandium (Sc)	[7440-20-2]	19 ± 2	ppm	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Scandium (Sc)	[7440-20-2]	0,0019 ± 0,00004	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Scandium (Sc)	[7440-20-2]	0,0019 ± 0,0002	%	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Selenium (Se)	[7782-49-2]	69 ± 2	ppm	4-acid digestion with either ICP-OES/ICP-MS/AAS finish

				h either I CPOES/ICPM S/AAS fini sh
Selenium (Se)	[7782-49-2]	0,0069 ± 0,0002	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Silicon (Si)	[7440-21-3]	14,64 ± 0,35	%	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Silver (Ag)	[7440-22-4]	0,6 ± 0,06	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Silver (Ag)	[7440-22-4]	0,00006 ± 0,000006	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Sodium (Na)	[7440-23-5]	8796 ± 443	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Sodium (Na)	[7440-23-5]	0,8796 ± 0,0443	%	4-acid dig estion wit h either I CPOES/ICPM

				S/AAS fini sh
Specific Gravity		2,93 ± 0,055		
Strontium (Sr)	[7440-24-6]	174 ± 14	ppm	4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Strontium (Sr)	[7440-24-6]	182 ± 12	ppm	Fusion digestion with either I CPOES/ICPM S/AAS fini sh
Strontium (Sr)	[7440-24-6]	0,0174 ± 0,0014	%	4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Strontium (Sr)	[7440-24-6]	0,0182 ± 0,0012	%	Fusion digestion with either I CPOES/ICPM S/AAS fini sh
Sulfur (S)	[7704-34-9]	5,29 ± 0,065	%	Combustion /LECO
Tantalum (Ta)	[7440-25-7]	0,3 ± 0,09	ppm	4-acid digestion with either I CPOES/ICPM S/AAS fini sh
Tantalum (Ta)	[7440-25-7]	0,00003 ± 0,000009	%	4-acid digestion with either I

					CPOES/ICPM S/AAS fini sh
Tellurium (Te)	[13494-80-9]	8 ± 0,4	ppm		4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Tellurium (Te)	[13494-80-9]	0,0008 ± 0,00004	%		4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Thallium (Tl)	[7440-28-0]	0,1 ± 0,01	ppm		4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Thallium (Tl)	[7440-28-0]	0,00001 ± 0,000001	%		4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Thorium (Th)	[7440-29-1]	5 ± 0,3	ppm		4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Thorium (Th)	[7440-29-1]	0,0005 ± 0,00003	%		4-acid dig estion wit h either I CPOES/ICPM S/AAS fini

				sh
Tin (Sn)	[7440-31-5]	8 ± 0,3	ppm	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Tin (Sn)	[7440-31-5]	0,0008 ± 0,00003	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Titanium (Ti)	[7440-32-6]	918 ± 12	ppm	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Titanium (Ti)	[7440-32-6]	0,0918 ± 0,0012	%	Fusion digestion with either ICP-OES/ICP-MS/AAS finish
Tungsten (W)	[7440-33-7]	0,2 ± 0,02	ppm	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Tungsten (W)	[7440-33-7]	0,00002 ± 0,000002	%	4-acid digestion with either ICP-OES/ICP-MS/AAS finish
Uranium (U)	[7440-61-1]	30 ± 2	ppm	4-acid digestion

				estion wit h either I CPOES/ICPM S/AAS fini sh
Uranium (U)	[7440-61-1]	0,003 ± 0,0002	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Vanadium (V)	[7440-62-2]	23 ± 1	ppm	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Vanadium (V)	[7440-62-2]	0,0023 ± 0,0001	%	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Yttrium (Y)	[7440-65-5]	95 ± 4	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Yttrium (Y)	[7440-65-5]	109 ± 6	ppm	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Yttrium (Y)	[7440-65-5]	0,0095 ± 0,0004	%	4-acid dig estion wit h either I



				CPOES/ICPM S/AAS fini sh
Yttrium (Y)	[7440-65-5]	0,0109 ± 0,0006	%	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Zinc (Zn)	[7440-66-6]	72 ± 2	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Zinc (Zn)	[7440-66-6]	75 ± 7	ppm	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Zinc (Zn)	[7440-66-6]	0,0072 ± 0,0002	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Zinc (Zn)	[7440-66-6]	0,0075 ± 0,0007	%	Fusion dig estion wit h either I CPOES/ICPM S/AAS fini sh
Zirconium (Zr)	[7440-67-7]	21 ± 2	ppm	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini

				sh
Zirconium (Zr)	[7440-67-7]	0,0021 ± 0,0002	%	4-acid dig estion wit h either I CPOES/ICPM S/AAS fini sh
Al <sub>2</sub> O <sub>3</sub>		1,93 ± 0,066	%	XRF
CaO		26,01 ± 0,68	%	XRF
Fe <sub>2</sub> O <sub>3</sub>		8,14 ± 0,097	%	XRF
MgO	[1309-48-4]	2,06 ± 0,042	%	XRF
MnO		0,14 ± 0,005	%	XRF
SiO <sub>2</sub>		30,62 ± 0,35	%	XRF
TiO <sub>2</sub>		0,16 ± 0,01	%	XRF