

## Copper rougher feed

Art. ID GEO-GBM914-5  
Unit each  
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Nickel (Ni)	[7440-02-0]	0,0214	%		
Certified value	Copper (Cu)	[7440-50-8]	1,292	%		
Certified value	Zinc (Zn)	[7440-66-6]	0,0591	%		
Certified value	Lead	[7439-92-1]	0,0094	%		
Certified value	Arsenic (As)	[7440-38-2]	0,0043	%		
Certified value	Cobalt (Co)	[7440-48-4]	0,004	%		
Certified value	Silver (Ag)	[7440-22-4]	0,0000004	%		
Certified value	Nickel (Ni)	[7440-02-0]	0,0211	%	Partial Digest (AR etc.)	
Certified value	Copper (Cu)	[7440-50-8]	1,3044	%	Partial Digest (AR etc.)	
Certified value	Zinc (Zn)	[7440-66-6]	0,0586	%	Partial Digest (AR etc.)	
Certified value	Lead	[7439-92-1]	0,0095	%	Partial Digest (AR etc.)	
Certified value	Arsenic (As)	[7440-38-2]	0,0041	%	Partial Digest (AR etc.)	
Certified value	Cobalt (Co)	[7440-48-4]	0,0039	%	Partial Digest (AR etc.)	
Certified value	Silver (Ag)	[7440-22-4]	0,00041	%	Partial Digest (AR etc.)	
Single analysis only - Not certified	Antimony (Sb)	[7440-36-0]	0,000125	%	Neutron activation analyses	

Single analysis only - Not certified	Arsenic (As)	[7440-38-2]	0,0049	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Barium (Ba)	[7440-39-3]	0,04715	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Bromine (Br)	[7726-95-6]	0,00013	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Cadmium (Cd)	[7440-43-9]	<0,0005	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Cerium (Ce)	[7440-45-1]	0,0065	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Caesium (Cs)	[7440-46-2]	0,000139	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Chromium (Cr)	[7440-47-3]	0,00595	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Cobalt (Co)	[7440-48-4]	0,0044	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Europium (Eu)	[7440-53-1]	0,0001	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Gold (Au)	[7440-57-5]	0,1425	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Hafnium (Hf)	[7440-58-6]	<0,0001	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Iridium (Ir)	[7439-88-5]	<0,000005	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Iron (Fe)	[7439-89-6]	23,85	%	Neutron ac tivation a

Single analysis only - Not certified	Lanthanum (La)	[7439-91-0]	0,00376	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Lutetium (Lu)	[7439-94-3]	<0,00002	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Molybdenum (Mo)	[7439-98-7]	0,01135	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Nickel (Ni)	[7440-02-0]	0,0243	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Rubidium (Rb)	[7440-17-7]	0,0082	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Samarium (Sm)	[7440-19-9]	0,000397	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Scandium (Sc)	[7440-20-2]	0,00038	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Selenium (Se)	[7782-49-2]	0,0016	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Sodium (Na)	[7440-23-5]	1,75	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Tantalum (Ta)	[7440-25-7]	0,00005	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Tellurium (Te)	[13494-80-9]	<0,002	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Terbium (Tb)	[7440-27-9]	<0,00005	%	Neutron ac tivation a nalyzes
Single analysis only -	Thorium (Th)	[7440-29-1]	0,00048	%	Neutron ac

Not certified					tivation a nalyzes
Single analysis only - Not certified	Tin	[7440-31-5]	<0,02	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Tungsten (W)	[7440-33-7]	0,00277	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Uranium (U)	[7440-61-1]	0,00061	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Ytterbium (Yb)	[7440-64-4]	0,00012	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Zinc (Zn)	[7440-66-6]	0,06125	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Zirconium (Zr)	[7440-67-7]	<0,05	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Silver (Ag)	[7440-22-4]	0,0005	%	Neutron ac tivation a nalyzes
Indicative value	Iron (Fe)	[7439-89-6]	22,83	%	Fusion / X RF
Indicative value	SiO <sub>2</sub>		36,39	%	Fusion / X RF
Indicative value	Al <sub>2</sub> O <sub>3</sub>		8,77	%	Fusion / X RF
Indicative value	TiO <sub>2</sub>		0,25	%	Fusion / X RF
Indicative value	MnO		0,18	%	Fusion / X RF
Indicative value	CaO		4,45	%	Fusion / X RF
Indicative value	Phosphorus (P)	[7723-14-0]	0,073	%	Fusion / X RF
Indicative value	Sulfur (S)	[7704-34-9]	6,21	%	Fusion / X

					RF
Indicative value	MgO	[1309-48-4]	1,71	%	Fusion / X
					RF
Indicative value	K <sub>2</sub> O		3,04	%	Fusion / X
					RF
Indicative value	Na <sub>2</sub> O		2,25	%	Fusion / X
					RF
Indicative value	Loss on Ignition (L.O.I ) (1000 °C)		6,68	%	