

## **Certified Gold Reference Material (Cu Pb Zn Materials sulphide)**

Art. ID GEO-G316-10  
Unit Powder 10g or 1 kg  
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Gold (Au)	[7440-57-5]	4,65 ± 0,04	ppm	Fire Assay	
Certified value	Gold (Au)	[7440-57-5]	4,56 ± 0,063	ppm	Aqua Regia	
Single analysis only - Not certified	Antimony (Sb)	[7440-36-0]	0,0225	%	Neutron activation analyses	
Single analysis only - Not certified	Arsenic (As)	[7440-38-2]	0,0363	%	Neutron activation analyses	
Single analysis only - Not certified	Barium (Ba)	[7440-39-3]	0,029	%	Neutron activation analyses	
Single analysis only - Not certified	Bromine (Br)	[7726-95-6]	<0,0002	%	Neutron activation analyses	
Single analysis only - Not certified	Cadmium (Cd)	[7440-43-9]	<0,001	%	Neutron activation analyses	
Single analysis only - Not certified	Cerium (Ce)	[7440-45-1]	0,00384	%	Neutron activation analyses	
Single analysis only - Not certified	Caesium (Cs)	[7440-46-2]	0,0001	%	Neutron activation analyses	
Single analysis only - Not certified	Chromium (Cr)	[7440-47-3]	<0,006	%	Neutron activation analyses	
Single analysis only - Not certified	Cobalt (Co)	[7440-48-4]	0,00521	%	Neutron activation analyses	
Single analysis only - Not certified	Europium (Eu)	[7440-53-1]	<0,0001	%	Neutron activation analyses	

Single analysis only - Not certified	Gold (Au)	[7440-57-5]	0,000433	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Hafnium (Hf)	[7440-58-6]	<0,0005	%	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]	8,1	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Lanthanum (La)	[7439-91-0]	0,0023	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Lutetium (Lu)	[7439-94-3]	0,0000699	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Molybdenum (Mo)	[7439-98-7]	0,002	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Nickel (Ni)	[7440-02-0]	0,00619	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Rubidium (Rb)	[7440-17-7]	0,008	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Samarium (Sm)	[7440-19-9]	0,00049	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Scandium (Sc)	[7440-20-2]	0,00214	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Selenium (Se)	[7782-49-2]	<0,001	%	Neutron ac tivation a nalyzes
Single analysis only -	Sodium (Na)	[7440-23-5]	2,3	%	Neutron ac

Not certified					tivation a nalyzes
Single analysis only - Not certified	Tantalum (Ta)	[7440-25-7]	<0,0002	%	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]	<0,0001	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Thorium (Th)	[7440-29-1]	0,00103	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Tin (Sn)	[7440-31-5]	<0,02	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Tungsten (W)	[7440-33-7]	<0,0005	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Uranium (U)	[7440-61-1]	0,0006	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Ytterbium (Yb)	[7440-64-4]	<0,0003	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Zinc (Zn)	[7440-66-6]	0,574	%	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	Calcium	[7440-70-2]	nr	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Potassium (K)	[7440-09-7]	nr	%	Neutron ac tivation a nalyzes

Single analysis only - Not certified	Silver (Ag)	[7440-22-4]	<0,000201	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Mercury (Hg)	[7439-97-6]	nr	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Neodymium (Nd)	[7440-00-8]	nr	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Strontium (Sr)	[7440-24-6]	nr	%	Neutron ac tivation a nalyzes
Indicative value	Iron (Fe)	[7439-89-6]	7,86	%	Fusion / X RF
Indicative value	SiO <sub>2</sub>		58,91	%	Fusion / X RF
Indicative value	Al <sub>2</sub> O <sub>3</sub>		12,05	%	Fusion / X RF
Indicative value	TiO <sub>2</sub>		0,087	%	Fusion / X RF
Indicative value	MnO		1,522	%	Fusion / X RF
Indicative value	CaO		5,54	%	Fusion / X RF
Indicative value	Phosphorus (P)	[7723-14-0]	0,143	%	Fusion / X RF
Indicative value	Sulfur (S)	[7704-34-9]	1,08	%	Fusion / X RF
Indicative value	MgO	[1309-48-4]	2,94	%	Fusion / X RF
Indicative value	K <sub>2</sub> O		1,72	%	Fusion / X RF
Indicative value	Na <sub>2</sub> O		2,831	%	Fusion / X RF
Indicative value	Loss on Ignition (L.O.I ) (1000 °C)		1,66	%	Fusion / X RF