

**Oxide copper - malachite, chrysocolla, cuprite and azurite ex WA**

Art. ID GEO-GBM322-12  
Unit each

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Nickel (Ni)	[7440-02-0]	0,0077	%		
Certified value	Copper (Cu)	[7440-50-8]	2,4118	%		
Certified value	Zinc (Zn)	[7440-66-6]	0,0413	%		
Certified value	Lead (Pb)	[7439-92-1]	0,0024	%		
Certified value	Cobalt (Co)	[7440-48-4]	nr	%		
Certified value	Silver (Ag)	[7440-22-4]	0,002	%		
Certified value	Sulfur (S)	[7704-34-9]	0,03	%		
Single analysis only - Not certified	Antimony (Sb)	[7440-36-0]	0,0308	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Arsenic (As)	[7440-38-2]	0,0567	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Barium (Ba)	[7440-39-3]	0,015	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Bromine (Br)	[7726-95-6]	<0,0002	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Cadmium (Cd)	[7440-43-9]	<0,001	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Cerium (Ce)	[7440-45-1]	0,0026	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Caesium (Cs)	[7440-46-2]	0,0003	%	Neutron ac tivation a nalyzes	
Single analysis only - Not certified	Chromium (Cr)	[7440-47-3]	0,0074	%	Neutron ac tivation a nalyzes	
Single analysis only -	Cobalt (Co)	[7440-48-4]	0,004	%	Neutron ac	

Not certified					tivation a nalyzes
Single analysis only - Not certified	Europium (Eu)	[7440-53-1]	0,00012	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Gold (Au)	[7440-57-5]	0,0000283	%	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]	4	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Lanthanum (La)	[7439-91-0]	0,0014	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Lutetium (Lu)	[7439-94-3]	0,00003	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Molybdenum (Mo)	[7439-98-7]	<0,001	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Nickel (Ni)	[7440-02-0]	0,0074	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Rubidium (Rb)	[7440-17-7]	0,0057	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Samarium (Sm)	[7440-19-9]	0,00028	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Scandium (Sc)	[7440-20-2]	0,00115	%	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 - Not certified	Sodium (Na)	[7440-23-5]	0,37	%	Neutron ac 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]	0,00041	%	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]	<0,0002	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Uranium (U)	[7440-61-1]	0,0003	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Ytterbium (Yb)	[7440-64-4]	0,00014	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Zinc (Zn)	[7440-66-6]	0,04	%	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 (Ca)	[7440-70-2]	nr	%	Neutron ac tivation a

						analyses
Single analysis only - Not certified	Potassium (K)	[7440-09-7]	nr	%		Neutron ac tivation a nalyses
Single analysis only - Not certified	Silver (Ag)	[7440-22-4]	0,002	%		Neutron ac tivation a nalyses
Single analysis only - Not certified	Mercury (Hg)	[7439-97-6]	nr	%		Neutron ac tivation a nalyses
Single analysis only - Not certified	Neodymium (Nd)	[7440-00-8]	nr	%		Neutron ac tivation a nalyses
Single analysis only - Not certified	Strontium (Sr)	[7440-24-6]	nr	%		Neutron ac tivation a nalyses
Indicative value	Iron (Fe)	[7439-89-6]	4,01	%		Fusion / X RF
Indicative value	SiO <sub>2</sub>		71,24	%		Fusion / X RF
Indicative value	Al <sub>2</sub> O <sub>3</sub>		11,6	%		Fusion / X RF
Indicative value	TiO <sub>2</sub>		0,47	%		Fusion / X RF
Indicative value	MnO		0,03	%		Fusion / X RF
Indicative value	CaO		0,27	%		Fusion / X RF
Indicative value	Phosphorus (P)	[7723-14-0]	0,04	%		Fusion / X RF
Indicative value	Sulfur (S)	[7704-34-9]	0,03	%		Fusion / X RF
Indicative value	MgO	[1309-48-4]	1,15	%		Fusion / X RF
Indicative value	K <sub>2</sub> O		1,47	%		Fusion / X RF
Indicative value	Na <sub>2</sub> O		0,44	%		Fusion / X RF

