

## Oxide andesite, Pilbara, WA

Art. ID GEO-GBM321-2  
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	Nickel (Ni)	[7440-02-0]	0,005	%		
Certified value	Copper (Cu)	[7440-50-8]	0,1176	%		
Certified value	Zinc (Zn)	[7440-66-6]	0,0217	%		
Certified value	Lead	[7439-92-1]	0,0019	%		
Certified value	Arsenic (As)	[7440-38-2]	0,007	%		
Certified value	Cobalt (Co)	[7440-48-4]	0,0034	%		
Certified value	Silver (Ag)	[7440-22-4]	0,0000002	%		
Certified value	Nickel (Ni)	[7440-02-0]	0,0047	%	Partial Digest (AR etc.)	
Certified value	Copper (Cu)	[7440-50-8]	0,1167	%	Partial Digest (AR etc.)	
Certified value	Zinc (Zn)	[7440-66-6]	0,0211	%	Partial Digest (AR etc.)	
Certified value	Lead	[7439-92-1]	0,0017	%	Partial Digest (AR etc.)	
Certified value	Arsenic (As)	[7440-38-2]	0,0068	%	Partial Digest (AR etc.)	
Certified value	Cobalt (Co)	[7440-48-4]	0,0033	%	Partial Digest (AR etc.)	
Certified value	Silver (Ag)	[7440-22-4]	0,00018	%	Partial Digest (AR etc.)	
Single analysis only - Not certified	Antimony (Sb)	[7440-36-0]	0,00046	%	Neutron activation analyses	

Single analysis only - Not certified	Arsenic (As)	[7440-38-2]	0,007	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Barium (Ba)	[7440-39-3]	0,0175	%	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]	0,0054	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Caesium (Cs)	[7440-46-2]	0,0004	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Chromium (Cr)	[7440-47-3]	0,0045	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Cobalt (Co)	[7440-48-4]	0,0035	%	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]	0,0018	%	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]	6,6	%	Neutron ac tivation a

Single analysis only - Not certified	Lanthanum (La)	[7439-91-0]	0,0028	%	Neutron activation analyses
Single analysis only - Not certified	Lutetium (Lu)	[7439-94-3]	0,00003	%	Neutron activation analyses
Single analysis only - Not certified	Molybdenum (Mo)	[7439-98-7]	<0,001	%	Neutron activation analyses
Single analysis only - Not certified	Nickel (Ni)	[7440-02-0]	0,0053	%	Neutron activation analyses
Single analysis only - Not certified	Rubidium (Rb)	[7440-17-7]	0,0067	%	Neutron activation analyses
Single analysis only - Not certified	Samarium (Sm)	[7440-19-9]	0,00042	%	Neutron activation analyses
Single analysis only - Not certified	Scandium (Sc)	[7440-20-2]	0,00141	%	Neutron activation analyses
Single analysis only - Not certified	Selenium (Se)	[7782-49-2]	<0,001	%	Neutron activation analyses
Single analysis only - Not certified	Sodium (Na)	[7440-23-5]	0,42	%	Neutron activation analyses
Single analysis only - Not certified	Tantalum (Ta)	[7440-25-7]	<0,0002	%	Neutron activation analyses
Single analysis only - Not certified	Tellurium (Te)	[13494-80-9]	<0,002	%	Neutron activation analyses
Single analysis only - Not certified	Terbium (Tb)	[7440-27-9]	0,0001	%	Neutron activation analyses
Single analysis only -	Thorium (Th)	[7440-29-1]	0,000403	%	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]	0,0005	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Uranium (U)	[7440-61-1]	<0,0002	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Ytterbium (Yb)	[7440-64-4]	0,00018	%	Neutron ac tivation a nalyzes
Single analysis only - Not certified	Zinc (Zn)	[7440-66-6]	<0,02	%	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]	6,69	%	Fusion / X RF
Indicative value	SiO <sub>2</sub>		62,37	%	Fusion / X RF
Indicative value	Al <sub>2</sub> O <sub>3</sub>		15,52	%	Fusion / X RF
Indicative value	TiO <sub>2</sub>		0,78	%	Fusion / X RF
Indicative value	MnO		0,12	%	Fusion / X RF
Indicative value	CaO		0,93	%	Fusion / X RF
Indicative value	Phosphorus (P)	[7723-14-0]	0,066	%	Fusion / X RF
Indicative value	Sulfur (S)	[7704-34-9]	0,06	%	Fusion / X

					RF
Indicative value	MgO	[1309-48-4]	3,11	%	Fusion / X
					RF
Indicative value	K <sub>2</sub> O		1,9	%	Fusion / X
					RF
Indicative value	Na <sub>2</sub> O		0,6	%	Fusion / X
					RF
Indicative value	Loss on Ignition (L.O.I ) (1000 °C)		4,54	%	