

Detection limit

Major and minor elements	wt%
Al ₂ O ₃	0.01
CaO	0.01
K ₂ O	0.01
MgO	0.01
MnO	0.01
Na ₂ O	0.01
P ₂ O ₅	0.01
Fe ₂ O ₃ or FeO	0.01
SiO ₂	0.01
TiO ₂	0.01
LOI	0.01

Detection limit

Trace elements	ppm	Note
Sc	0.1	
V	5	
Cr	0.5	
Co	0.1	
Ni	1	
Cu	1	
Zn	1	
Ga	1	
Ge	0.5	
As	1	
Se	0.5	
Br	0.5	
Rb	1	
Sr	2	
Y	1	
Zr	1	
Nb	0.2	
Mo	2	
Ag	0.5	desired, but not required
Cd	0.5	desired, but not required
Sn	1	
Sb	0.1	
Cs	0.1	
Ba	1	
Hf	0.2	
Ta	0.01	
W	1	
Ir	2 ppb	desired, but not required
Au	1 ppb	desired, but not required
Pb	5	
Th	0.05	

U 0.01

Detection limit

Rare earth elements	ppm
La	0.05
Ce	0.05
Pr	0.01
Nd	0.05
Sm	0.01
Eu	0.005
Gd	0.01
Tb	0.01
Dy	0.01
Ho	0.01
Er	0.01
Tm	0.005
Yb	0.01
Lu	0.002

Detection limit

Other analyses	wt%	Suggested method
C (total)	0.01	Infrared
C (organic)	0.02	
S (total)	0.01	Infrared
F	0.01	Ion specific electrode
Cl	0.01	ISE, INAA
Hg	5 ppb	Cold vapor FIMS
B	0.5 ppm	PGNAA
Li	0.001	acid digestion ICP-OES