



Geochemical Procedure

ME-ICP93

Nickel laterite analysis by lithium meta/tetra borate fusion. ICPAES determination

Sample Decomposition:

Lithium tetraborate fusion

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.2 g) is decomposed by fusion with lithium tetraborate. The fused mass is dissolved in dilute nitric acid containing an internal standard (to monitor nebulizer uptake). Elements are determined by ICP - AES using suitable reference standards.

Element	Symbol	Units	Lower Limit	Upper Limit
Aluminum	Al ₂ O ₃	%	0.01	100
Calcium	CaO	%	0.1	100
Cobalt	Co	%	0.005	100
Chromium	Cr ₂ O ₃	%	0.01	100
Iron	Fe	%	0.01	100
Potassium	K ₂ O	%	0.1	100
Magnesium	MgO	%	0.01	100
Manganese	MnO	%	0.01	100
Sodium	Na ₂ O	%	0.05	100
Nickel	Ni	%	0.01	100
Phosphorus	P ₂ O ₅	%	0.05	100
Silicon	SiO ₂	%	0.01	100
Titanium	TiO ₂	%	0.01	100
	LOI	%	0.01	100

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Elements listed below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit
Copper	Cu	%	0.01	100
Manganese	Mn	%	0.01	100