

DOI: 10.1590/2317-4889202020190093

MINERALOGY, PETROLOGY, AND ORIGIN OF THE PEDRA BRANCA SUITE:
A TONALITIC-TRONDHJEMITIC ASSOCIATION WITH HIGH Zr, Ti AND Y, CARAJÁS
PROVINCE, AMAZONIAN CRATON

Arthur Santos da Silva, Gilmar Regina Lima Feio, João Paulo Silva Alves, Roberto Dall’Agnol, José de Arimatéia Costa de Almeida, Allan Cardek Brunelli Gomes

Supplementary table 5. Representative electron microprobe analyses of epidote of the Pedra Branca Suite.

Classification	Trondhjemite						Tonalite	
Samples	AMR – 191 A (13)						AMR – 121 A (5)	
Analyses	C1_2	C2_3	C3_4	C9_5	C9_6	C10_7	C2_1	C6_2
SiO ₂	38.02	37.97	38.03	38.76	37.12	38.16	38.21	36.99
TiO ₂	0.07	0.00	0.08	0.02	0.03	0.23	0.00	0.10
Al ₂ O ₃	23.33	23.67	23.06	25.01	25.07	25.26	24.03	20.33
FeO	11.88	11.48	12.26	9.37	7.39	9.46	11.24	14.56
MnO	0.00	0.01	0.00	0.00	0.42	0.02	0.00	0.17
MgO	0.06	0.05	0.03	0.09	0.05	0.03	0.03	0.00
CaO	23.63	23.76	24.01	23.72	23.22	23.85	23.14	22.95
Na ₂ O	0.00	0.02	0.01	0.03	0.03	0.00	0.10	0.03
K ₂ O	0.00	0.00	0.01	0.01	0.01	0.00	0.02	0.07
Total	96.99	96.96	97.49	97.01	93.34	97.01	95.74	95.20
Number of cations per formula unit based on thirteen oxygen atoms								
Si	3.236	3.226	3.231	3.246	3.213	3.203	3.240	3.268
Al	2.340	2.371	2.309	2.468	2.558	2.499	2.402	2.117
Ti	0.004	0.000	0.005	0.001	0.002	0.015	0.000	0.006
Fe	0.846	0.816	0.871	0.657	0.535	0.664	0.797	1.076
Mn	0.000	0.000	0.000	0.000	0.031	0.002	0.000	0.013
Mg	0.007	0.006	0.004	0.011	0.007	0.003	0.003	0.000
Ca	2.155	2.163	2.186	2.128	2.154	2.145	2.103	2.173
Na	0.000	0.003	0.001	0.005	0.005	0.000	0.016	0.005
K	0.000	0.000	0.001	0.001	0.001	0.000	0.002	0.007
Fe/(Fe+Mg)	0.999	0.999	0.999	0.999	0.898	0.995	0.999	0.974
Ps	22.62	22.19	22.85	19.61	16.97	19.68	22.12	23.46

