

Representative results of microchemical (EPMA) analyses (in wt.%) of brochantite

	1	2	3	4	5	6	7	8	9	10	11	11	12	13	14	15	16
Sample:	BK2									BK3-1							
SO ₃	16.85	16.83	16.62	17.71	16.85	16.72	16.93	17.21	17.03	18.17	18.20	17.71	17.58	17.08	18.18	17.54	17.70
P ₂ O ₅	0.11	0.11		0.13	0.11	0.12	0.11	0.14	0.11						0.14	0.16	
SiO ₂	0.79	0.48	0.44	0.42	0.63	0.57	0.77	0.73	0.19	0.30		0.34	0.70	0.83	0.78		0.29
CuO	66.69	64.67	63.98	70.94	63.59	64.02	63.98	65.27	65.03	74.90	71.65	71.13	71.78	70.86	74.33	72.04	73.23
CaO					0.11		0.14	0.12					0.15		0.13		
Σ	84.46	82.10	81.05	89.21	81.31	81.43	81.94	83.48	82.37	93.38	89.85	89.18	90.21	88.78	93.42	89.74	91.22
H ₂ O ²	10.82	10.55	10.51	11.80	10.25	10.37	10.24	10.48	10.76	17.00	16.26	16.14	16.34	16.08	16.91	16.35	16.62
	<i>apfu or mpfu (basis: 4 metal cations)</i>																
S	1.00	1.03	1.03	0.99	1.05	1.04	1.05	1.05	1.04	0.97	1.01	0.99	0.97	0.95	0.96	0.97	0.96
P	0.01	0.01		0.01	0.01	0.01	0.01	0.01	0.01							0.01	
Si	0.06	0.04	0.04	0.03	0.05	0.05	0.06	0.06	0.02	0.02		0.03	0.05	0.06	0.06		0.02
Cu	4.00	4.00	4.00	4.00	3.99	4.00	3.99	3.99	4.00	4.01	3.99	3.99	3.97	3.98	3.97	4.02	4.01
Ca					0.01		0.01	0.01					0.01		0.01		
OH	5.72	5.75	5.79	5.86	5.66	5.71	5.62	5.64	5.83	6.00	5.97	5.90	5.83	5.81	5.81	6.06	6.02

¹⁾Mg, Al, K, Ti, V, Fe, Mn, Zn, and As were analyzed but not detected; empty cells denote values below detection limits; ²⁾calculated backwards from *mpfu*(OH)