

APPENDIX 1

Selected microprobe analyses [in wt.%] and structural formulae of plagioclase from the Strzelin granites

	Medium-grained biotite granite						Very fine-grained granite			Fine-grained biotite granite				Biotite-muscovite granite				Aplite			
	200-2						6902 IV			200-1		300 IV		300 II-1				300 I-1			
	r	r	c	c	r	c/r	r	c	c	r	c	c	r	r	c	r	r	c	r	r	
SiO ₂	64.36	61.98	60.53	63.23	65.40	62.01	62.95	60.47	61.28	63.46	56.12	61.70	65.70	64.69	63.43	64.00	66.59	65.65	65.64	66.83	
Al ₂ O ₃	22.21	23.79	24.68	22.16	20.84	23.14	22.20	24.24	23.82	22.99	27.6	23.59	21.21	21.59	23.12	22.78	20.70	22.11	21.69	20.87	
FeO	0.05	0.02	0.00	0.00	0.00	0.04	0.00	0.03	0.00	0.06	0.05	0.02	0.00	0.00	0.03	0.02	0.02	0.13	0.00	0.00	
CaO	2.98	4.85	6.08	3.23	1.73	4.31	3.95	6.08	5.70	3.65	9.52	5.22	2.30	2.93	3.83	3.32	1.22	2.60	2.15	1.14	
BaO	0.00	0.03	0.07	0.00	0.00	0.00	0.00	0.02	0.05	0.14	0.00	0.02	0.00	0.05	0.00	0.02	0.02	0.05	0.00	0.00	
Na ₂ O	10.00	8.64	8.03	9.30	10.39	9.09	9.22	8.12	8.54	9.25	6.24	8.70	10.42	10.08	8.97	9.57	10.73	10.25	10.35	10.82	
K ₂ O	0.18	0.36	0.17	0.27	0.11	0.16	0.21	0.24	0.13	0.24	0.12	0.21	0.11	0.12	0.31	0.13	0.31	0.02	0.16	0.12	
Sum	99.78	99.67	99.56	98.19	98.47	98.75	98.53	99.20	99.52	99.79	99.65	99.46	99.74	99.46	99.69	99.84	99.59	100.81	99.99	99.78	
Number of ions on the basis of 8 O																					
Si	2.844	2.757	2.704	2.837	2.912	2.779	2.822	2.712	2.736	2.809	2.531	2.753	2.895	2.866	2.807	2.825	2.932	2.866	2.884	2.932	
Al	1.157	1.247	1.299	1.172	1.094	1.222	1.173	1.281	1.254	1.199	1.467	1.241	1.102	1.128	1.206	1.185	1.074	1.138	1.123	1.079	
Fe ⁺²	0.002	0.001	0.000	0.000	0.000	0.002	0.000	0.001	0.000	0.002	0.002	0.001	0.000	0.000	0.001	0.001	0.001	0.005	0.000	0.000	
Ca	0.141	0.231	0.291	0.155	0.083	0.207	0.190	0.292	0.273	0.173	0.460	0.249	0.109	0.139	0.182	0.157	0.058	0.121	0.101	0.054	
Ba	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	
Na	0.857	0.745	0.695	0.809	0.897	0.790	0.801	0.706	0.739	0.794	0.546	0.753	0.890	0.866	0.770	0.819	0.916	0.867	0.882	0.920	
K	0.010	0.021	0.010	0.015	0.006	0.009	0.012	0.014	0.008	0.013	0.007	0.012	0.006	0.007	0.017	0.007	0.018	0.001	0.009	0.007	
Mol [%]	or	1.0	2.1	1.0	1.6	0.6	0.9	1.2	1.3	0.7	1.3	0.7	1.2	0.6	0.6	1.8	0.7	1.8	0.1	0.9	0.7
	ab	85.0	74.7	69.7	82.6	91.0	78.5	79.9	69.8	72.4	80.8	53.9	74.2	88.6	85.5	79.5	83.3	92.4	87.6	88.9	93.8
	an	14.0	23.2	29.2	15.8	8.4	20.6	18.9	28.9	26.7	17.6	45.4	24.6	10.8	13.8	18.7	16.0	5.8	12.3	10.2	5.5
	cls	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0

c – core, r – rim, c/r – core/rim; ab – albite; an – anorthite; cls – celsian, or – orthoclase