Supplement of Solid Earth, 8, 789–804, 2017
https://doi.org/10.5194/se-8-789-2017-supplement

Solid Earth Open Access EGU

Supplement of

Interpretation of zircon coronae textures from metapelitic granulites of the Ivrea–Verbano Zone, northern Italy: two-stage decomposition of Fe–Ti oxides

Elizaveta Kovaleva et al.

Correspondence to: Elizaveta Kovaleva (kovalevae@ufs.ac.za)

DataPoint	mineral	Na	Si	Mg	Al	Ca	Mn	Fe	Ti	Cr	Ni	K	Ba	Sr	Zn	Nb
42 / 1 .	Garnet core	-2	230	245	210	259	312	790	250							
43 / 1 .	Garnet rim	343	215	241	217	256	313	821	255							
44 / 1 .	Garnet rim	353	223	242	227	252	308	804	250							
45 / 1 .	Garnet rim	-2	230	248	206	246	323	806	264							
46 / 1 .	Garnet rim	399	224	235	211	244	311	795	251							
47 / 1 .	Bt rim	404	267	237	222	252	313	676	294			453				
48 / 1 .	Bt rim	370	260	238	210	239	296	702	294			440				
49 / 1 .	Bt core	388	266	252	220	242	294	604	303			441				
50 / 1 .	Bt core	389	267	239	214	234	290	590	295			445				
51 / 1 .	Bt rim	406	272	244	219	235	307	679	278			435				
52 / 1 .	Phyl	438	291	261	325	288		530	0			476	996	-1		
53 / 1 .	Phyl	363	293	244	308	321		456	356			530	981	986		
54 / 1 .	Phyl	482	299	237	319	310		528	363			486	967	0		
55 / 1 .	Bt rim	391	257	241	217	232	298	685	293			396				
56 / 1 .	Chl	-1	247	252	211	227	293	731	274			296				
57 / 1 .	Chl	0	260	249	229	228	285	743	284			309				
58 / 1 .	Ilm		191	216	160		341	820	349	0	0				663	1048
59 / 1 .	Ilm		188	210	161		345	789	347	405	419				-4	941
60 / 1 .	Rut		158	189	102			314	877	214						516
61 / 1 .	Rut		158	191	104			328	883	211						527
62 / 1 .	Rut		158	190	103			340	861	218						515
63 / 1 .	Grt core	0	222	246	222	264	308	830	261							
64 / 1 .	Grt rim	376	225	247	203	249	316	835	260							
65 / 1 .	Grt core	363	224	251	223	261	315	812	265							
66 / 1 .	Grt rim	-1	225	252	207	255	314	833	259							
67 / 1 .	Grt rim	359	225	247	208	231	314	838	250							
68 / 1 .	Chl	0	246	246	226	232	282	732	280			302				
69 / 1 .	Chl	-22	254	243	237	239	288	781	264			303				
70 / 1 .	Chl	418	260	251	225	238	306	763	270			304				
71 / 1 .	Phyl	391	267	216	218	208	281	541	265			404				
72 / 1 .	Phyl	347	256	209	224	213	285	466	268			421				
73 / 1 .	Phyl	307	258	205	215	243	296	483	268			397				
74 / 1 .	Chl	398	246	251	226	235	298	734	283			300				
75 / 1 .	Chl	390	252	236	222	242	284	734	269			306				
76 / 1 .	Phyl	338	261	208	215	227	289	507	279			406				
77 / 1 .	Ilm		209	247	173		383	883	392	-1	0				-1	1109
78 / 1 .	Grt rim	-2	221	242	205	246	315	852	260							
79 / 1 .	Grt rim	-2	222	242	215	270	314	878	260							
80 / 1 .	Grt rim	0	222	245	206	259	321	860	0							
81 / 1 .	Chl	410	250	249	226	225	291	755	284			307	843			
82 / 1 .	Chl	439	253	242	229	238	300	753	281			297	836			
83 / 1 .	Phyl	371	253	220	224	234	291	569	271			395	845			
84 / 1 .	Pheng/mus	352	266	203	217	238	0	428	273			431	909			
85 / 1 .	Pheng/mus	370	258	199	213	240	0	415	265			419	866			
86 / 1 .	Phyl	366	257	200	216	250	273	487	279			389	885			
87 / 1 .	Pheng/mus	352	254	207	219	232	281	455	276			438	882			
88 / 1 .	Grt core	344	222	238	214	251	313	822	254							
89 / 1 .	Grt core	362	225	230	214	257	311	837	256							
90 / 1 .	Chl	0	254	244	235	226	288	732	288			310	827			
91 / 1 .	Bt rim	421	256	241	223	243	297	713	305			391	908			
92 / 1 .	Chl	0	251	239	212	228	294	741	270			299	0			
93 / 1 .	Chl	-1	246	252	227	239	294	730	276			314	822			
94 / 1 .	Grt rim	-3	220	240	207	259	300	821	263							
95 / 1 .	Grt rim	369	219	234	209	260	312	824	260							
96 / 1 .	Grt core	375	220	243	213	247	303	800	-1							

97 / 1 .	Grt core	344	223	237	197	266	316	778	254
98 / 1 .	Grt core	380	224	237	211	256	315	780	253

Supplemental Table S1. Detection limits of EMPA analyses in ppm.

Ta	Comment	X	Y	Z
	IV12-05_pos01_1	12338	31291	-11
	IV12-05_pos01_2	12139	31101	-11
	IV12-05_pos01_3	12265	31074	-11
	IV12-05_pos01_4	12459	31134	-13
	IV12-05_pos01_6	12610	31094	-15
	IV12-05_pos01_7	12558	31116	-15
	IV12-05_pos01_8	12538	31188	-15
	IV12-05_pos01_9	12767	31243	-19
	IV12-05_pos01_10	12233	30928	-17
	IV12-05_pos01_11	12234	30961	-17
	IV12-05_pos01_12	12438	30987	-17
	IV12-05_pos01_13	12543	30983	-17
	IV12-05_pos01_14	12279	30999	-17
	IV12-05_pos01_15	12348	30856	-17
	IV12-05_pos01_16	12373	30891	-17
	IV12-05_pos01_17	12184	30842	-17
1150	IV12-05_pos01_18	17831	22603	-78
1155	IV12-05_pos01_19	18042	22604	-78
	IV12-05_pos01_20	17932	22531	-78
	IV12-05_pos01_21	17947	22582	-78
	IV12-05_pos01_22	18004	22759	-78
	IV12-05_pos02_23	17724	22788	-73
	IV12-05_pos02_24	17782	22708	-73
	IV12-05_pos02_25	17861	22743	-73
	IV12-05_pos02_26	17879	22703	-73
	IV12-05_pos02_27	17865	22589	-77
	IV12-05_pos02_28	18133	22696	-82
	IV12-05_pos02_29	18227	22651	-85
	IV12-05_pos02_30	17792	22633	-82
	IV12-05_pos02_31	17829	22589	-82
	IV12-05_pos02_32	17936	22758	-82
	IV12-05_pos02_33	17947	22744	-82
	IV12-05_pos02_34	17835	22554	-82
	IV12-05_pos02_35	17835	22554	-82
	IV12-05_pos02_36	17729	22638	-82
1269	IV12-05_pos03_37	16696	16242	-102
	IV12-05_pos03_38	16993	16635	-102
	IV12-05_pos03_39	16934	16603	-99
	IV12-05_pos03_40	16937	16448	-99
	IV12-05_pos03_41	16945	16232	-103
	IV12-05_pos03_42	16981	16233	-103
	IV12-05_pos03_43	16912	16276	-103
	IV12-05_pos03_44	16970	16277	-103
	IV12-05_pos03_45	16731	16234	-103
	IV12-05_pos03_46	17005	16257	-103
	IV12-05_pos03_47	16581	16500	-103
	IV12-05_grt1_c	16811	15481	-100
	IV12-05_grt1_r	16648	15610	-100
	IV12-05_pos04_48	2393	23044	12
	IV12-05_pos04_49	2487	23203	12
	IV12-05_pos04_50	2264	23191	12
	IV12-05_pos04_51	2187	22927	12
	IV12-05_pos04_52	2395	23026	12
	IV12-05_pos04_53	2489	23188	12
	IV12-05_pos04_54_c	2684	23008	12

IV12-05_pos04_55_c	2658	22820	12
IV12-05_pos04_56_c	2878	22833	12