

Table 1. Bulk element compositions of symplectite-bearing peridotites.

Sample Lithology	AJE 1049 grt hz	AJE 1171 c hz	Bf 6 f hz	Bf 16 c hz	Bf 24 c hz	Bf 106 metas.	Bf 110 metas.	Bf 116 metas.	Bf 122 metas.
Major elements in wt % oxide									
SiO ₂	46.96	45.78	44.16	47.30	46.28	46.87	45.44	45.31	48.84
TiO ₂	0.01	0.15	0.00	0.01	0.01	0.03	0.05	0.03	0.01
Al ₂ O ₃	0.35	1.06	0.73	1.09	1.05	1.15	1.11	0.78	1.27
Fe ₂ O ₃	6.06	7.08	7.20	6.41	6.75	6.40	6.85	6.58	6.32
MnO	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.10
MgO	44.63	42.66	46.20	43.99	43.86	42.94	44.33	45.20	41.52
CaO	0.39	0.83	0.25	0.38	0.48	0.44	0.44	0.23	0.82
Na ₂ O	0.24	0.15	0.15	0.15	0.16	0.21	0.27	0.06	0.20
K ₂ O	0.05	0.93	0.02	0.03	0.03	0.43	0.13	0.63	0.07
P ₂ O ₅	0.03	0.04	0.00	0.02	0.01	0.01	0.02	0.02	0.02
Total	98.83	98.80	98.83	99.50	98.75	98.60	98.76	98.96	99.17
Trace elements in ppm									
Nb	3.6	2.8	1.3	3.7	1.2	3.3	2.1	6.2	7.6
Zr	6	15	1	2	2	5	3	4	4
Y	0.2	0.4	0.2	0.4	0.2	0.5	0.1	0.1	0.1
Sr	43	68	25	48	12	48	26	26	82
U	0	0	0	0	0	0	0	0	0
Rb	2.2	33.9	0.9	0.9	1.1	13	4.5	21.3	1.9
Th	1	0	0	0	0	0	0	0	0
Pb	0	1	1	1	0	1	0	0	0
Ga	1	2	0	0	0	1	1	0	1
Zn	38	48	40	35	38	39	38	38	37
Ni	2256	2092	2294	2101	2256	1968	2181	2198	1553
Cr	1212	2101	1964	2688	2219	2930	2360	2325	3083
V	19	24	18	25	22	30	25	21	28
Ce	12	8	2	20	2	4	9	2	6
Ba	31	84	20	54	14	238	33	64	56

Table 1. Bulk chemical compositions of symplectite-bearing peridotites continued

Sample Lithology	Bf 126 grt hz	Bf 127 f hz	Bf 144 grt hz	Kf 2 c hz	Pl 33 f hz	Pl 34 metas.	Pl 40 metas	Pl 45 c hz	Pl 47 f hz
Major elements wt % oxides									
SiO ₂	45.73	45.69	46.10	46.28	45.51	45.96	45.74	46.79	45.76
TiO ₂	0.12	0.01	0.02	0.01	0.00	0.06	0.09	0.01	0.00
Al ₂ O ₃	0.37	0.91	0.35	1.05	0.59	1.04	1.07	1.07	1.28
Fe ₂ O ₃	6.30	7.17	6.27	6.75	6.77	6.90	6.74	6.56	6.61
MnO	0.11	0.11	0.08	0.12	0.12	0.13	0.12	0.12	0.12
MgO	45.61	45.01	45.89	43.86	45.19	44.25	43.70	43.21	44.53
CaO	0.24	0.34	0.20	0.48	0.14	0.28	0.85	0.47	0.39
Na ₂ O	0.21	0.18	0.23	0.16	0.17	0.21	0.10	0.18	0.08
K ₂ O	0.02	0.01	0.04	0.03	0.01	0.68	0.70	0.03	0.02
P ₂ O ₅	0.03	0.01	0.03	0.01	0.00	0.01	0.02	0.02	0.01
Total	98.74	99.44	99.21	98.75	98.50	99.52	99.13	98.46	98.06
Trace elements in ppm									
Nb	4.8	1	4.1	2.4	0.4	4.9	5.0	1.8	1.5
Zr	8	1	7	3	0	3	7	2	0
Y	0.4	0.6	0.7	0.1	0	0.3	0.6	0.1	0.2
Sr	27	23	34	20	7	31	42	24	13
U	0	1	0	0	0	0	0	0	0
Rb	1.2	0.7	1.8	1.3	1	20.3	19.1	1.6	1.8
Th	0	0	0	0	0	1	0	0	0
Pb	0	0	0	0	0	0	0	0	0
Ga	0	0	0	1	0	0	1	1	0
Zn	38	38	36	37	36	44	38	37	37
Ni	2286	2198	2287	1964	2162	2068	2024	2078	2185
Cr	1839	2342	1191	3084	2374	2600	2449	2445	2403
V	17	23	17	31	20	24	28	21	23
Ce	7	3	8	15	0	7	5	5	2
Ba	17	34	16	27	1	207	264	25	12

Table 1. Bulk chemical compositions of symplectite-bearing peridotites continued

Sample	Pl 48	Pl 67	Pl 97
Lithology	f hz	c hz	f hz
Major elements as wt % oxides			
SiO ₂	44.66	45.97	47.08
TiO ₂	0.00	0.00	0.01
Al ₂ O ₃	0.94	1.13	1.28
Fe ₂ O ₃	7.03	6.75	6.52
MnO	0.12	0.12	0.12
MgO	44.88	44.09	43.94
CaO	0.34	0.41	0.46
Na ₂ O	0.07	0.23	0.15
K ₂ O	0.01	0.02	0.01
P ₂ O ₅	0.00	0.02	0.00
Total	98.05	98.74	99.57
Trace elements in ppm			
Nb	0.6	1.7	0.1
Zr	1	1	0
Y	0.1	0.3	0
Sr	7	27	12
U	0	0	0
Rb	1	1.3	1
Th	0	0	0
Pb	0	0	0
Ga	0	0	0
Zn	39	38	37
Ni	2342	2199	2075
Cr	2145	2184	2638
V	21	22	27
Ce	0	2	0
Ba	0	12	5

