

Table 2. Selected olivine compositions.

Sample Lithology	AJE 1049 grt hz	AJE 1169 c hz	Bf 16 f hz	Bf 127 f hz	PL 34 metas.	PL 48 F hz
SiO <sub>2</sub>	40.77	41.21	40.83	41.77	41.41	41.12
TiO <sub>2</sub>	.02	.01	.01	na	.01	0.00
Al <sub>2</sub> O <sub>3</sub>	.01	.01	.01	0.00	.02	.01
Cr <sub>2</sub> O <sub>3</sub>	.03	0.00	0.00	0.00	.02	.01
MgO	52.37	52.34	52.13	51.11	51.25	51.75
CaO	.02	.01	.01	.01	.01	.01
MnO	.13	.10	.06	.06	.09	.06
FeO	6.70	6.72	6.81	7.55	7.01	7.39
NiO	na	na	na	.26	.28	.28
Total	100.05	100.40	99.86	100.76	100.10	100.63
Cations/4 oxygens						
Si	0.986	0.992	0.987	1.005	1.001	0.991
Ti	0.000	0.000	0.000	0.000	0.000	0.000
Al	0.001	0.001	0.000	0.000	0.000	0.000
Cr	0.001	0.000	0.000	0.000	0.000	0.000
Mg	1.888	1.878	1.880	1.833	1.847	1.860
Ca	0.001	0.001	0.000	0.000	0.000	0.000
Mn	0.003	0.002	0.001	0.001	0.002	0.001
Fe	0.138	0.135	0.138	0.152	0.142	0.149
Ni	na	na	na	0.005	0.005	0.005
Total	3.018	3.008	3.006	2.996	2.997	3.006
Fo	93.30	93.29	93.16	92.34	92.77	92.54