

Table 3S - Mica inclusions averaged major element compositions

Sample	16OM12	16OM13	16OM14	16OM15A	16OM21	16OM25	16OM27	16OM36	16OM38B	16OM41C
Lithology	pl/cpx dunite	opx/pl/cpx dunite	pl/cpx dunite	opx/pl/cpx dunite	opx/pl/cpx dunite	opx/pl/cpx dunite	opx/pl/cpx dunite	pure dunite	chromitite	amph-dunite* (± cpx)
Longitude	57.936430	57.936650	57.936904	57.937001	57.937908	57.938641	57.939020	57.929952	57.931841	57.933308
Latitude	23.129073	23.129234	23.129303	23.129323	23.129206	23.128824	23.128565	23.131008	23.129961	23.129253
Elevation (m)	867	884	900	906	962	1016	1046	720	748	772
n analyses	2	3	2	1	3	1	2	1	7	1
SiO ₂	40.01	37.75	40.70	40.17	41.68	40.41	38.86	42.35	38.56	36.72
TiO ₂	2.56	3.16	4.60	3.56	4.22	3.06	5.06	0.73	1.46	1.00
Al ₂ O ₃	13.80	16.07	14.34	16.88	13.27	13.22	14.22	14.79	16.81	15.42
Cr ₂ O ₃	2.25	3.75	2.05	1.60	2.07	2.97	1.64	2.56	2.34	2.12
FeO (tot)	3.89	3.02	3.26	2.88	3.27	4.22	4.64	2.37	1.50	2.93
MgO	23.01	22.73	21.51	23.84	24.46	24.29	23.47	20.59	24.54	28.38
MnO	0.10	0.05	0.05	0.00	0.06	0.14	0.05	0.01	0.04	0.04
NiO	0.15	0.20	0.19	0.10	0.11	0.13	0.11	0.12	0.29	0.19
CaO	3.68	0.19	2.69	0.05	0.19	0.11	0.13	0.26	0.29	0.41
Na ₂ O	3.01	4.16	4.17	6.79	3.41	3.62	2.51	6.45	2.50	2.53
K ₂ O	2.99	2.94	2.57	0.47	3.64	3.22	5.45	0.17	5.68	2.16
P ₂ O ₅	0.02	0.00	0.03	0.00	0.01	0.00	0.00	0.01	0.02	0.00
F	0.00	0.16	0.04	0.00	0.10	0.04	0.07	0.03	0.07	0.00
Cl	0.02	0.03	0.04	0.04	0.03	0.00	0.06	0.01	0.01	0.01
Total	95.49	94.21	96.24	96.38	96.52	95.43	96.27	90.45	94.11	91.91
XMg	91.34	93.10	92.09	93.64	93.02	91.12	90.09	93.94	96.67	94.52
XNa	62.16	68.89	68.87	95.68	59.12	63.08	37.60	98.33	39.34	63.97

$$\text{XMg} = 100 \times \text{Mg}/(\text{Mg} + \text{Fe}^{2+})$$

$$\text{XNa} = 100 \times \text{Na}/(\text{Na} + \text{K})$$

* (with chromite schlieren)