

Appendix 1 Table 9

Table 9. Representative microprobe data for muscovite grains in sample VMLK 20-23.

Weight% Oxides

Sample: 20-23 C1 M1P1 20-23 C1 M1P2 20-23 C3 M1P1

SiO ₂	46.57	47.71	45.47
TiO ₂	0.90	0.67	0.95
Al ₂ O ₃	34.84	35.96	33.17
FeO	3.09	2.77	2.83
MnO	0.01	0.03	0.03
MgO	0.75	0.77	0.92
CaO	0.01	0.03	0.00
Na ₂ O	0.42	0.40	0.43
K ₂ O	10.19	10.18	9.65
F	0.52	0.30	0.17
Cl	0.00	0.01	0.02
Cr ₂ O ₃	0.00	0.01	0.03
NiO	0.00	0.00	0.00
Total	97.13	98.72	93.64

Cations per 12 oxygens

Si	6.15	6.16	6.20
Al ^{iv}	1.86	1.84	1.80
Al ^{vi}	3.56	3.63	3.53
Ti	0.09	0.07	0.10
Cr	0.00	0.00	0.00
Fe	0.34	0.30	0.32
Mn	0.00	0.00	0.00
Mg	0.15	0.15	0.19
Ca	0.00	0.00	0.00
Na	0.11	0.10	0.12
K	1.72	1.68	1.68
OH*	3.78	3.88	3.92
F	0.22	0.12	0.07
Cl	0.00	0.00	0.01