

Appendix 1 Table 6

Table 6. Representative microprobe data for garnets in sample VMLK 20-23.

Weight % Oxides

Sample	20-23 C1 G1P1	20-23 C1 G1P2	20-23 C2 G1P1	20-23 C2 G1P2
SiO ₂	37.37	37.52	37.76	37.31
TiO ₂	0.03	0.03	0.07	0.00
Al ₂ O ₃	22.01	21.90	22.07	21.75
FeO	23.69	23.21	24.43	24.28
MnO	14.73	14.60	13.52	13.52
MgO	2.45	2.40	2.88	2.85
CaO	1.17	1.15	1.31	1.14
Cr ₂ O ₃	0.00	0.02	0.05	0.02
Total	101.44	100.85	102.08	100.88

Cations Per 12 Oxygens

Si	2.96	2.98	2.97	2.97
Al iv	0.04	0.02	0.03	0.03
Al vi	2.03	2.04	2.02	2.02
Ti	0.00	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00
Fe ²⁺	1.61	1.60	1.64	1.64
Mn	0.99	0.98	0.90	0.91
Mg	0.29	0.28	0.34	0.34
Ca	0.10	0.10	0.11	0.10
Total	8.01	8.00	8.01	8.01

End Members

Almandine	53.49	53.90	54.56	54.63
Grossular	3.35	3.26	3.59	3.19
Pyrope	9.78	9.61	11.39	11.40
Spessartine	33.38	33.17	30.32	30.70
Uvarovite	0.00	0.06	0.14	0.07

20-23 C3 G1P1 20-23 C3 G1P2 20-23 C4 G1P1 20-23 C4 G1P2

37.46	37.50	37.48	37.49
0.00	0.03	0.03	0.00
22.26	22.03	22.08	22.08
25.03	24.55	24.43	23.08
12.75	12.91	13.45	14.97
2.89	2.81	2.50	2.43
1.28	1.35	1.09	1.03
0.02	0.01	0.00	0.00
101.69	101.18	101.06	101.08

2.95	2.97	2.97	2.97
0.05	0.03	0.03	0.03
2.03	2.03	2.04	2.04
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
1.69	1.67	1.67	1.59
0.85	0.87	0.90	1.00
0.34	0.33	0.30	0.29
0.11	0.11	0.09	0.09
8.02	8.01	8.01	8.01

56.04	55.79	56.48	53.48
3.59	3.83	3.12	2.94
11.48	11.18	9.96	9.70
28.82	29.17	30.44	33.88
0.07	0.03	0.00	0.00