

TABLE DR1. MINERAL COMPOSITIONS AND MODES FROM PISTON CYLINDER EXPERIMENTS ON MIX1G GARNET PYROXENITE

Run	<i>n</i>	mode	SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	Total	Mg#
<u>96MMH05 2 GPa, 1400 °C, 62.5 hours</u>															
cpx	9	0.673	51.1(6)	0.5(1)	10.3(6)	0.08(3)	6.1(3)	0.14(3)	18.2(6)	13.4(6)	0.86(3)	0.02(1)	0.01(1)	100.74	84.1
spn	5	0.067	0.30(2)	0.21(6)	67.5(4)	0.8(1)	10.6(3)	0.09(2)	20.9(2)	0.14(2)	0.01(1)	0.01(2)	0.02(2)	100.62	77.8
<u>96MMH07 2 GPa, 1375 °C, 63 hours, diamonds</u>															
cpx	8	0.726	50.2(3)	0.72(8)	10.4(3)	0.09(4)	6.4(3)	0.13(3)	17.2(6)	13.7(9)	1.19(4)	0.02(2)	0.02(4)	99.99	82.
gt	8	0.073	42.3(2)	0.5(2)	22.7(4)	0.5(6)	9.4(3)	0.27(6)	18.9(2)	5.6(2)	0.02(1)	0.03(1)	0.01(2)	100.1	78.2
spn	4	0.06	0.35(4)	0.35(2)	65.5(6)	0.65(7)	11.8(3)	0.12(3)	20.8(1)	0.15(1)	0.01(1)	0.02(1)	0.01(2)	99.65	75.9
<u>95MMH23 2.5 GPa, 1500 °C, 34 hours</u>															
cpx	7	0.188	51.2(2)	0.28(8)	9.8(3)	0.16(3)	3.9(1)	0.11(4)	18.9(2)	15.1(3)	0.80(5)	0.03(2)	0.02(3)	100.1	89.6
gt	8	0.139	43.2(2)	0.42(4)	23.07(9)	0.22(4)	6.1(1)	0.18(4)	20.9(2)	6.1(2)	0.01(2)	0.02(1)	0.02(1)	100.1	86.0
<u>95MMH17 2.5 GPa, 1475 °C 43 hours</u>															
cpx	9	0.445	50.(3)	0.51(8)	10.7(2)	NA	5.3(1)	0.10(5)	17.2(3)	14.6(4)	1.15(5)	0.01(1)	0.01(1)	100.4	85.3
gt	5	0.275	41.6(1)	0.6(1)	22.9(3)	NA	8.6(3)	0.20(4)	19.1(4)	6.1(1)	0.03(2)	0.00(1)	0.01(2)	99.07	79.8
<u>95MMH15 2.5 GPa, 1455 °C, 46/30 hours</u>															
cpx	10	0.471	50.8(7)	0.51(2)	10.5(3)	NA	5.4(1)	0.10(5)	16.7(1)	14.70(4)	1.2(1)	0.01(1)	0.00(1)	99.91	84.6
gt	7	0.319	41.4(2)	0.52(6)	23.0(2)	NA	8.2(1)	0.20(4)	19.1(1)	6.0(1)	0.02(2)	0.01(1)	0.02(3)	98.65	80.6

See Table 1 for explanations of abbreviations.