

SUPPLEMENTAL TABLE 1. Representative garnet analyses

	Erzgebirge1 Low-P Domain <i>n</i> =5	Erzgebirge2 High-P Domain <i>n</i> =5	Saxony1 Low-Ca Domain <i>n</i> =6	Saxony2 High-Ca & High-P Domain <i>n</i> =4	Saxony3 High-Ca & Low-P Domain <i>n</i> =6
SiO ₂	38.83(8)	38.73(1)	36.07(5)	36.18(5)	36.40 (6)
TiO ₂	0.147(10)	0.020(3)	0.072(5)	0.076(8)	0.118(10)
P ₂ O ₅	0.139(7)	0.340(2)	0.343(26)	0.479(7)	0.119(29)
Al ₂ O ₃	21.97(2)	22.05(4)	20.67(3)	20.69(4)	20.63(6)
Cr ₂ O ₃	0.01(<1)	0.01(<1)	b.d.	b.d.	b.d.
Y ₂ O ₃	0.01(1)	b.d.	0.11(1)	0.08(1)	0.13(2)
FeO	27.00(5)	26.99(9)	39.68(10)	38.27(8)	38.37(14)
MgO	7.78(1)	8.13(9)	1.34(1)	1.24(2)	1.23(2)
MnO	0.29(1)	0.28(1)	0.94(2)	0.91(2)	0.91(2)
CaO	3.78(1)	3.50(13)	0.88(6)	2.30(7)	2.28(6)
Na ₂ O	0.102(6)	0.109(2)	0.039(3)	0.084(10)	0.041(4)
Total	100.05	100.17	100.19	100.36	100.31
Structural formulas (12 O atoms)					
Si	2.994	2.979	2.949	2.944	2.965
Ti	0.0085	0.0012	0.0044	0.0047	0.0072
P	0.0091	0.0221	0.0237	0.0330	0.0082
Al	1.997	2.000	1.993	1.985	1.981
Cr	0.001	0.001			
Y			0.005	0.003	0.006
Fe ³⁺			0.030	0.030	0.049
Fe ²⁺	1.741	1.736	2.683	2.574	2.565
Mg	0.894	0.932	0.163	0.150	0.149
Mn	0.019	0.018	0.065	0.063	0.063
Ca	0.312	0.288	0.077	0.201	0.199
Na	0.0153	0.0163	0.0062	0.0133	0.0065

Notes: b.d. = below detection. *n* is the number of analyses averaged for each table entry. Fe²⁺ and Fe³⁺ in garnet estimated based on 8 cations per 12 O. The values in parentheses represent the 1 σ uncertainties in the last digits.