

### APPENDIX 3

**Chemical EMP and calculated phase composition of diopside and Al-diopside forming host rock, clasts and unequilibrated inclusions in the Pułtusk breccia**

[wt.%]	H3.8 inclusions		H4/H5 host rock			Clasts H5 and H6				
Al <sub>2</sub> O <sub>3</sub>	3.94	5.77	0.45	0.43	0.68	0.30	0.55	0.47	0.51	0.50
MgO	15.41	15.69	18.07	17.41	16.92	17.02	16.59	16.99	17.00	16.78
SiO <sub>2</sub>	51.88	48.74	53.89	53.64	52.96	54.10	53.59	54.17	53.40	53.67
TiO <sub>2</sub>	1.04	2.62	0.36	0.33	0.57	0.26	0.47	0.35	0.43	0.44
CaO	22.01	21.53	22.67	22.74	23.14	22.86	22.24	22.30	22.28	22.58
FeO	3.13	3.25	3.82	3.74	3.93	3.74	3.84	3.98	4.13	3.53
MnO	0.27	0.14	0.26	0.31	0.23	0.20	0.24	0.27	0.25	0.21
Cr <sub>2</sub> O <sub>3</sub>	1.75	1.74	0.68	0.73	0.86	0.82	1.00	0.89	0.79	0.77
NiO	b.d.	b.d.	b.d.	b.d.	0.06	b.d.	b.d.	b.d.	b.d.	0.03
Na <sub>2</sub> O	0.95	0.88	0.47	0.50	0.60	0.52	0.54	0.55	0.52	0.47
K <sub>2</sub> O	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.
Total	100.39	100.36	100.68	99.83	99.93	99.80	99.07	99.96	99.30	98.99
En [mol%]	46.71	47.56	49.50	48.55	47.33	47.88	47.78	48.20	48.12	47.96
Fs [mol%]	5.33	5.53	5.86	5.86	6.16	5.90	6.20	6.33	6.56	5.66
Wo [mol%]	47.97	46.91	44.64	45.59	46.51	46.22	46.02	45.48	45.32	46.38

b.d. – below detection limit