

Table S1. The experiments carried out, their numbering and conditions.

<i>Experiment code (Series 1/Series 2*)</i>	<i>Temperature (°C)</i>	<i>Slag type</i>	<i>Oxygen partial pressure (atm)</i>	<i>Crucible material</i>
MV12e/MV37	1150	A	0.5	SiO ₂
MV13e/MV38	1150	A	0.2	SiO ₂
MV18, MV18e/MV51	1150	A	0.01	SiO ₂
MV17, MV17e/MV48	1150	A	0.0001	SiO ₂
MV28/MV40	1150	B	0.5	MgO
MV14/MV41	1150	B	0.2	MgO
MV19/MV52	1150	B	0.01	MgO
MV29/MV49	1150	B	0.0001	MgO
MV30/MV42	1150	C	0.5	MgO
MV31/MV43	1150	C	0.2	MgO
MV20/MV53	1150	C	0.01	MgO
MV32/MV50	1150	C	0.0001	MgO
MV35/MV58	1000	B	0.5	MgO
MV22/MV55	1000	B	0.01	MgO
MV34, MV34e/MV45	1000	A	0.5	SiO ₂
MV23, MV23e/MV54	1000	A	0.01	SiO ₂
MV27/MV46	1300	A	0.5	SiO ₂
MV24/MV56	1300	A	0.01	SiO ₂
MV26/MV47	1300	B	0.5	MgO
MV25/MV57	1300	B	0.01	MgO

*e in table S2 refers to extended experiments with (16) or 32 hours equilibration time