

XRF Report for Heat	SM21
Project No.	10390

Quantitative Analysis

		LOI/GOI mass%	Na ₂ O mass%	MgO mass%	Al ₂ O ₃ mass%	SiO ₂ mass%	P ₂ O ₅ mass%	SO ₃ mass%	K ₂ O mass%	CaO mass%	TiO ₂ mass%	V ₂ O ₅ mass%	Cr ₂ O ₃ mass%	MnO mass%	Fe ₂ O ₃ mass%	ZnO mass%	SrO mass%	ZrO ₂ mass%	BaO mass%
C11		LOI 16.33	0.41	1.64	12.21	48.97	0.10	0.57	0.98	26.95	0.63	0.01	0.01	0.49	5.06	0.11	0.04	0.04	0.13
C16		LOI 15.99	0.29	1.53	11.09	43.15	0.07	1.08	1.05	33.71	0.55	0.01	0.01	0.52	5.11	0.00	0.04	0.03	0.09
C17		LOI 13.14	0.24	1.67	10.77	42.37	0.07	1.60	0.64	36.49	0.81	0.01	0.00	0.37	3.19	0.07	0.04	0.04	0.11
H18		LOI 24.74	0.29	2.81	9.83	34.48	0.09	0.90	0.54	42.23	0.28	0.01	0.00	0.50	5.12	0.05	0.07	0.03	0.52

Note 1: Quantitative analysis was conducted using the Fluxana Raw calibration application.

Note 2: In order to remove metallic contaminants from the slag, magnetic material was removed from the slag samples using a magnet during the sample preparation process. The mass% of material removed is shown in the table as 'Mags'.

Note 3: Lithium Borate was used as the flux in the bead-making process. The sample to flux ratio was 1:10.

Note 4: All samples were fired in a muffle furnace prior to bead making. The heating profile was as follows: Setpoint: 900°C, heating rate: 3°C/min, hold time: 5 hrs.

Note 5: XRF Results are reported on an ignited basis.

Note 6: Blank cells represent zero values.