

TEST REPORT

Report No.: G1h/2209
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Date of issued: 01 November 2022
Client: Green Island Cement Company Limited - Sales Department
Date sample received: 05 September 2022
Date test commenced: 13 September 2022
Date test completed: 01 November 2022

Sample Description:

Brand Name: Green Slag Ground Granulated Blastfurnace Slag
Client's sample identification: Ground Granulated Blastfurnace Slag comply with BS EN 15167-1: 2006 (Amd. 16763)
Our Lab. No.: GS000756

Test Result:

Test	Specifications and/or Test Methods	Result	Requirement of BS EN 15167-1: 2006 (Amd. 16763)
Fineness	BS EN 196-6: 2010 Cl. 4 (by Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1	463 m ² /kg	not less than 275 m ² /kg
Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5 g	Trial 1: 2877 kg/m ³ Trial 2: 2872 kg/m ³ Average: 2870 kg/m ³	
Initial Setting Time	BS EN 196-3: 2016 Cl. 6	200 mins	not more than twice as Portland cement
Initial Setting Time #	in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2	170 mins	
Activity Index, 7 days	BS EN 196-1: 2016 Cl. 9.2	60 %	not less than 45%
Activity Index, 28 days	in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3	85 %	not less than 70%
Magnesium oxide content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.5.13 (Reference Method)	5.19 %	not more than 18% (m/m)
Chloride content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.5.16	<0.02 %	not more than 0.10% (m/m)
Sulfate content (as SO ₃)	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.2	<0.1 %	not more than 2.5% (m/m)
Sulfide content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.5	<0.9 %	not more than 2.0% (m/m)
Loss-on-ignition (L.O.I.)*	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 196-2: 2013 Cl. 4.4.1	1.69 %	not more than 3.0% (m/m)
Moisture content	BS EN 15167-1: 2006 (Amd. 16763) Cl. 5.2 & BS EN 15167-1: 2006 (Amd. 16763) Annex A	0.1 %	not more than 1.0% (m/m)
Calcium oxide content	BS EN 196-2: 2013 Cl. 4.5.12 (Reference Method)	41.35 %	

Remark: 1. Results relate only to the item tested.
 2. Sampling is performed by laboratory technician and sampling procedure is not accredited by HKAS.
 3. # means the results are for Portland cement alone with Lab. no. 96589.
 The Portland cement is manufactured by Green Island Cement Co. Ltd. located at Tap Shek Kok, Tuen Mun, N.T.
 4. * loss on ignition, corrected for oxidation of sulfide.