

Cement Circular

Issue No. : 3/2026

Date : 28-JUL-2026

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Test results for the following cementitious materials

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* The names of brands/ manufacturers are based on the information provided by the suppliers.

Also named as "China Resources Cement 華潤水泥" in Cement Circular Issue No. 4/2015 and before.

For cementitious materials not included in the Cement Circular, ER may request PWCL to carry out test.

The above test results were uploaded to CEDD's web-site of <https://www.cedd.gov.hk/eng/public-services-forms/geotechnical/laboratory-testing/public-works-laboratories/index.html>

Should you have any questions regarding this Circular, please contact PTO/Lab2, Mr. H.L.Li, at telephone number 2305 1275, or submit your questions in writing to the Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong (Attn: PTO/Lab2).

1 Asano / Taiheiyo Cement Corporation
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500034, 2500035	2500067, 2500068	2500103, 2500104	2500153, 2500154	2600001, 2600002	2600037, 2600038	2600079, 2600080	BS EN 197-1:2011 Strength Class 52.5N
Date of Sample Received	06/05/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Japan	Japan	Japan	Japan	Japan	Japan	Japan	
Physical Properties								
Density (kg/m³)	3110	3140	3120	3120	3140	3120	3130	Not specified
Fineness : Specific surface (cm²/g)	3360	3760	3740	3740	3830	3480	3510	Not specified
Consistence : Standard consistence (%)	28.0	28.5	29.0	28.5	28.5	28.0	28.0	Not specified
Setting Time : Initial setting time (min)	165	165	185	195	185	190	190	Min.45 min
Final setting time (min)	225	225	240	255	240	240	270	Not specified
Soundness (Le Chatelier) : Expansion (mm)	0.5	1.0	1.0	1.0	1.0	1.0	0.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	24.3	22.3	31.9	28.6	28.7	24.1	26.4	Min. 20 MPa
Average 28 days strength (MPa)	69.3	57.1	56.3	62.6	64.6	57.1	56.4	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	4.6	5.7	6.7	6.4	6.4	5.8	7.1	Not specified
Average 28 days strength (MPa)	9.0	10.0	9.3	9.9	10.3	11.1	11.5	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	2.1	2.4	2.7	2.1	2.4	Note (1)	2.2	Max. 5.0%
Insoluble Residue (%)	<0.5	<0.5	1.0	<0.5	0.7	Note (1)	<0.5	Max. 5.0%
Sulphate Content, expressed as SO₃ (%)	2.1	2.0	1.9	1.9	1.9	Note (1)	2.1	Max. 4.0%
Chloride Content (%)	<0.01	0.02	0.02	0.01	0.03	Note (1)	0.02	Max. 0.10%
K₂O (%)	0.42	0.38	0.36	0.32	0.39	Note (1)	0.36	---
Na₂O (%)	0.21	0.23	0.21	0.16	0.24	Note (1)	0.21	---
Total Alkali (Na₂O Eq.) (%)	0.49	0.48	0.45	0.37	0.50	Note (1)	0.45	---

Note: (1) Test not arranged in this period.

2 Champion (一品牌水泥) / 台泥(英德)水泥有限公司
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500036, 2500037	2500069, 2500070	2500105, 2500106	2500155, 2500156	2600003, 2600004	2600039, 2600040	2600079, 2600080	BS EN 197-1:2011 Strength Class 52.5N Specification
Date of Sample Received	06/05/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	
Physical Properties								
Density (kg/m ³)	3120	3100	3090	3100	3110	3130	3110	Not specified
Fineness : Specific surface (cm ² /g)	3690	4060	4110	3910	3910	3730	3870	Not specified
Consistence : Standard consistence (%)	27.5	28.5	29.0	28.5	28.5	28.5	28.0	Not specified
Setting Time : Initial setting time (min)	150	165	185	215	205	210	220	Min.45 min
Final setting time (min)	210	225	255	285	270	270	300	Not specified
Soundness (Le Chatelier) : Expansion (mm)	0.5	2.0	2.0	1.0	1.0	1.0	1.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	31.0	30.5	33.2	30.5	27.3	33.7	30.1	Min. 20 MPa
Average 28 days strength (MPa)	63.0	57.4	53.8	56.4	61.7	62.1	53.3	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	5.6	7.0	6.9	6.2	6.4	7.2	7.4	Not specified
Average 28 days strength (MPa)	9.2	9.6	9.8	9.8	9.5	11.2	10.7	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	2.8	3.0	3.1	3.0	3.1	Note (1)	2.9	Max. 5.0%
Insoluble Residue (%)	0.8	0.7	0.9	0.7	1.1	Note (1)	0.8	Max. 5.0%
Sulphate Content, expressed as SO ₃ (%)	2.7	3.0	2.5	2.5	2.6	Note (1)	2.5	Max. 4.0%
Chloride Content (%)	0.03	0.04	0.04	0.03	0.03	Note (1)	0.04	Max. 0.10%
K ₂ O (%)	0.74	0.78	0.70	0.57	0.60	Note (1)	0.47	---
Na ₂ O (%)	0.14	0.12	0.14	0.14	0.13	Note (1)	0.17	---
Total Alkali (Na ₂ O Eq.) (%)	0.63	0.63	0.60	0.52	0.53	Note (1)	0.48	---

Note: (1) Test not arranged in this period.

3 Feng Jiang (峰江牌水泥) / 佛山市高明高力發水泥有限公司
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500038, 2500039	2500071, 2500072	2500107, 2500108	2500157, 2500158	2600005, 2600006	2600041, 2600042	2600083, 2600084	BS EN 197-1:2011 Strength Class 52.5N
Date of Sample Received	06/05/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	
Physical Properties								
Density (kg/m³)	3150	3130	3120	3110	3170	3160	3140	Not specified
Fineness : Specific surface (cm²/g)	3930	3920	3860	3870	3760	3550	3910	Not specified
Consistence : Standard consistence (%)	28.0	28.5	29.0	29.5	28.5	28.0	28.0	Not specified
Setting Time : Initial setting time (min)	125	205	200	225	165	150	210	Min.45 min
Final setting time (min)	180	270	270	285	225	210	285	Not specified
Soundness (Le Chatelier) : Expansion (mm)	1.0	1.0	2.0	1.0	1.0	1.0	1.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	22.2	21.7	29.2	22.9	26.3	31.6	30.7	Min. 20 MPa
Average 28 days strength (MPa)	58.3	54.2	61.8	55.9	62.3	61.3	54.7	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	5.4	5.7	5.6	5.7	6.6	7.1	8.7	Not specified
Average 28 days strength (MPa)	8.4	8.8	9.1	9.2	8.8	9.7	10.2	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	1.0	1.4	1.2	1.7	1.0	Note (1)	1.7	Max. 5.0%
Insoluble Residue (%)	<0.5	0.6	0.9	0.6	1.2	Note (1)	0.6	Max. 5.0%
Sulphate Content, expressed as SO₃ (%)	1.8	2.0	1.6	1.5	1.5	Note (1)	1.8	Max. 4.0%
Chloride Content (%)	0.02	0.04	0.03	0.04	0.04	Note (1)	0.03	Max. 0.10%
K₂O (%)	0.56	0.63	0.63	0.60	0.64	Note (1)	0.40	---
Na₂O (%)	0.15	0.12	0.13	0.14	0.13	Note (1)	0.11	---
Total Alkali (Na₂O Eq.) (%)	0.51	0.54	0.54	0.54	0.55	Note (1)	0.37	---

Note: (1) Test not arranged in this period.

4 Golden Eagle (金鷹牌水泥), Special Green Island (青洲牌水泥), Emerald / Green Island Cement Co., Ltd.
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500040, 2500041	2500073, 2500074	2500109, 2500110	2500159, 2500160	2600007, 2600008	2600043, 2600044	2600085, 2600086	BS EN 197-1:2011 Strength Class 52.5N Specification
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	
Physical Properties								
Density (kg/m³)	3100	3100	3050	3130	3110	3110	3090	Not specified
Fineness : Specific surface (cm²/g)	3710	3740	3940	3650	3730	3810	3710	Not specified
Consistence : Standard consistence (%)	28.0	28.0	29.0	28.5	28.5	28.5	28.0	Not specified
Setting Time : Initial setting time (min)	110	150	140	165	140	150	165	Min.45 min
Final setting time (min)	165	210	195	225	195	210	225	Not specified
Soundness (Le Chatelier) : Expansion (mm)	0.0	1.0	1.0	1.0	1.0	2.0	2.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	24.2	20.7	23.9	22.3	24.3	22.5	25.0	Min. 20 MPa
Average 28 days strength (MPa)	68.9	56.1	60.4	57.8	63.6	59.2	56.5	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	4.7	5.3	5.6	5.2	5.7	6.2	7.0	Not specified
Average 28 days strength (MPa)	9.0	10.1	9.3	9.1	10.5	10.8	11.1	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	2.8	3.0	2.0	1.5	2.5	Note (1)	1.9	Max. 5.0%
Insoluble Residue (%)	1.3	0.8	3.5	1.2	2.0	Note (1)	2.5	Max. 5.0%
Sulphate Content, expressed as SO₃ (%)	2.4	2.4	2.2	2.4	2.4	Note (1)	2.7	Max. 4.0%
Chloride Content (%)	<0.01	<0.01	<0.01	<0.01	<0.01	Note (1)	0.04	Max. 0.10%
K₂O (%)	0.59	0.64	0.77	0.41	0.64	Note (1)	0.49	---
Na₂O (%)	0.17	0.14	0.12	0.22	0.13	Note (1)	0.10	---
Total Alkali (Na₂O Eq.) (%)	0.55	0.56	0.62	0.49	0.55	Note (1)	0.43	---

Note: (1) Test not arranged in this period.

5 Onoda / Chichibu Onoda Cement Corporation
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500042, 2500043	2500075, 2500076	2500111, 2500112	2500161, 2500162	2600009, 2600010	2600045, 2600046	2600087, 2600088	BS EN 197-1:2011 Strength Class 52.5N Specification
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Japan	Japan	Japan	Japan	Japan	Japan	Japan	
Physical Properties								
Density (kg/m³)	3120	3150	3110	3130	3120	3110	3130	Not specified
Fineness : Specific surface (cm²/g)	3380	3740	3750	3800	3790	3760	3670	Not specified
Consistence : Standard consistence (%)	26.5	28.0	29.0	28.5	28.5	29.0	28.0	Not specified
Setting Time : Initial setting time (min)	175	185	185	210	200	200	185	Min.45 min
Final setting time (min)	225	255	255	270	255	255	240	Not specified
Soundness (Le Chatelier) : Expansion (mm)	0.0	1.0	1.0	1.0	1.0	1.0	1.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	26.7	27.0	30.8	28.4	30.8	34.3	32.9	Min. 20 MPa
Average 28 days strength (MPa)	67.0	56.9	60.3	59.8	62.6	57.2	53.2	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	5.1	6.3	6.7	5.7	6.0	7.8	8.4	Not specified
Average 28 days strength (MPa)	9.9	8.9	10.4	9.5	9.8	10.8	11.0	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	2.7	2.6	2.4	2.5	2.7	Note (1)	2.4	Max. 5.0%
Insoluble Residue (%)	<0.5	0.9	1.0	0.9	1.3	Note (1)	0.8	Max. 5.0%
Sulphate Content, expressed as SO₃ (%)	1.9	2.2	2.0	1.7	2.4	Note (1)	2.5	Max. 4.0%
Chloride Content (%)	0.02	0.04	0.04	0.03	0.03	Note (1)	<0.01	Max. 0.10%
K₂O (%)	0.46	0.59	0.55	0.52	0.66	Note (1)	0.73	---
Na₂O (%)	0.21	<0.1	0.15	0.11	0.15	Note (1)	0.13	---
Total Alkali (Na₂O Eq.) (%)	0.51	0.48	0.51	0.46	0.58	Note (1)	0.61	---

Note: (1) Test not arranged in this period.

6 Yue Xiu (粤秀牌水泥) / Guanzhou Zhujiang Cement Co., Ltd.
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500044, 2500045	2500077, 2500078	2500113, 2500114	2500163, 2500164	2600011, 2600012	2600047, 2600048	2600089, 2600090	BS EN 197-1:2011 Strength Class 52.5N Specification
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	
Physical Properties								
Density (kg/m ³)	3130	3130	3090	3120	3130	3130	3120	Not specified
Fineness : Specific surface (cm ² /g)	4110	4310	4310	3980	3780	3860	3940	Not specified
Consistence : Standard consistence (%)	28.0	28.0	29.0	27.5	28.5	27.5	28.0	Not specified
Setting Time : Initial setting time (min)	175	165	180	180	210	255	180	Min.45 min
Final setting time (min)	225	225	255	240	270	315	240	Not specified
Soundness (Le Chatelier) : Expansion (mm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	24.6	38.1	30.1	26.7	32.2	31.5	28.4	Min. 20 MPa
Average 28 days strength (MPa)	63.8	55.3	65.3	56.9	68.5	60.8	58.6	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	5.5	7.4	6.7	6.2	7.2	8.0	8.2	Not specified
Average 28 days strength (MPa)	9.4	9.0	10.5	9.8	10.6	11.7	11.4	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	2.8	2.0	2.8	2.8	2.4	Note (1)	2.9	Max. 5.0%
Insoluble Residue (%)	<0.5	<0.5	1.5	0.9	0.6	Note (1)	1.3	Max. 5.0%
Sulphate Content, expressed as SO ₃ (%)	2.8	2.9	2.7	2.6	2.8	Note (1)	2.8	Max. 4.0%
Chloride Content (%)	0.01	0.02	0.02	0.02	0.04	Note (1)	0.05	Max. 0.10%
K ₂ O (%)	0.58	0.63	0.61	0.52	0.62	Note (1)	0.62	---
Na ₂ O (%)	<0.1	<0.1	<0.1	<0.1	0.10	Note (1)	<0.1	---
Total Alkali (Na ₂ O Eq.) (%)	0.45	0.48	0.47	0.40	0.51	Note (1)	0.48	---

Note: (1) Test not arranged in this period.

7 Runfeng (潤豐牌水泥)# / Dongguan China Resources Cement Manufactory Co., Ltd.
(Portland Cement, Strength Class 52.5N)

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Laboratory Reference	2500046, 2500047	2500079, 2500080	2500115, 2500116	2500165, 2500166	2600013, 2600014	2600049, 2600050	2600091, 2600092	BS EN 197-1:2011 Strength Class 52.5N
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Specification
Physical Properties								
Density (kg/m ³)	3140	3130	3120	3140	3140	3130	3130	Not specified
Fineness : Specific surface (cm ² /g)	4060	4260	4460	4400	4270	4160	4300	Not specified
Consistence : Standard consistence (%)	28.5	28.0	29.0	28.5	28.5	28.5	28.0	Not specified
Setting Time : Initial setting time (min)	200	195	165	180	200	200	185	Min.45 min
Final setting time (min)	240	270	225	240	285	255	240	Not specified
Soundness (Le Chatelier) : Expansion (mm)	1.0	1.0	1.0	2.0	2.0	2.0	2.0	Max.10 mm
Compressive Strength (broken mortar prism) :								
Average 2 days strength (MPa)	22.4	31.5	28.6	28.3	24.0	30.3	29.5	Min. 20 MPa
Average 28 days strength (MPa)	55.4	58.3	60.9	61.2	54.1	62.6	58.2	Min. 52.5 MPa
Flexural Strength (mortar prism) :								
Average 2 days strength (MPa)	5.0	6.3	5.8	6.0	6.5	7.1	8.6	Not specified
Average 28 days strength (MPa)	9.3	9.0	9.6	9.3	8.3	11.7	10.8	Not specified
Chemical Composition								
Observed Mass Loss-on-ignition (%)	2.4	2.2	2.4	2.6	2.8	Note (1)	3.0	Max. 5.0%
Insoluble Residue (%)	<0.5	0.7	1.3	0.7	0.5	Note (1)	<0.5	Max. 5.0%
Sulphate Content, expressed as SO ₃ (%)	2.6	2.6	1.9	2.3	2.3	Note (1)	2.2	Max. 4.0%
Chloride Content (%)	0.03	0.04	0.03	0.05	0.04	Note (1)	0.05	Max. 0.10%
K ₂ O (%)	0.42	0.42	0.47	0.40	0.49	Note (1)	0.43	---
Na ₂ O (%)	<0.1	<0.1	<0.1	<0.1	<0.1	Note (1)	<0.1	---
Total Alkali (Na ₂ O Eq.) (%)	0.34	0.37	0.39	0.34	0.39	Note (1)	0.35	---

Note: (1) Test not arranged in this period.

Laboratory Reference	2500048, 2500049	2500081, 2500082	2500117, 2500118	2500167, 2500168	2600015, 2600016	2600051, 2600052	2600093, 2600094	BS3892:Part 1: 1997
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Specification
Physical Properties								
Fineness (%)	9.1	8.1	5.9	7.1	10.1	10.1	9.4	Not more than 12%
Particle Density (kg/m ³)	2450	2620	2620	2600	2440	2370	2580	Not less than 2000 kg/m ³
Water Requirement (%)	90	90	91	89	90	89	89	Note (1)
Strength Factor ---	0.94	0.99	0.99	0.96	0.92	0.96	0.98	Note (1)
Standard Consistence (%)	25.5	26.0	27.0	26.5	27.0	26.0	26.5	---
Initial Setting Time (min)	190	225	230	200	270	295	290	Not less than the initial setting time of the Portland cement used
Soundness (mm)	0.5	1.0	2.0	2.0	2.0	1.0	2.0	Not more than 10 mm
Portland Cement used								
Brand	Champion	Champion	Champion	Champion	Champion	Champion	Champion	---
Lab. Reference No.	2500005, 2500006	243218CE253762, 243218CE253762(1)	243218CE254051, 243218CE254051(1)	243218CE254247, 243218CE254247(1)	243218CE263037, 243218CE263037(1)	243218CE263248, 243218CE263248(1)	243218CE263480, 243218CE263480(1)	---
Initial Setting Time (min)	190	170	155	185	210	215	185	---
Chemical Composition								
Moisture Content (%)	0.3	0.2	<0.1	0.2	0.1	Note (2)	0.1	Not more than 0.5%
Loss-on-ignition (%)	0.7	0.8	0.7	0.8	0.7	Note (2)	0.7	Not more than 7%
Sulphate Content, expressed as SO ₃ (%)	1.8	1.7	1.5	1.4	1.1	Note (2)	1.3	Not more than 2.0%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (2)	<0.05	Not more than 0.1%
Calcium Oxide Content (%)	7.5	15.2	15.0	15.2	11.4	Note (2)	15.2	Not more than 10.0%
K ₂ O (%)	0.9	1.3	1.4	1.1	1.1	Note (2)	1.3	---
Na ₂ O (%)	2.2	1.5	1.7	1.4	1.9	Note (2)	1.4	---
Total Alkali (Na ₂ O Eq.) (%)	2.8	2.4	2.6	2.2	2.6	Note (2)	2.3	---

Note: (1) In accordance with GS16.07(b), the criteria for water requirement and strength factor at 28 days shall not apply, but the values of water requirement and strength factor at 28 days shall be reported.

Note: (2) Test not arranged in this period.

9 Hung Lee (鴻利牌煤灰) / Dongguan Hung Lee PFA Ltd.
(Pulverised-fuel Ash)

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Laboratory Reference	2500050, 2500051	2500083, 2500084	2500119, 2500120	2500169, 2500170	2600017, 2600018	2600053, 2600054	Note (2)	BS3892:Part 1: 1997
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	---	Specification
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	---	
Physical Properties								
Fineness (%)	7.4	9.4	11.0	11.2	6.9	7.7	---	Not more than 12%
Particle Density (kg/m ³)	2460	2370	2330	2330	2290	2370	---	Not less than 2000 kg/m ³
Water Requirement (%)	95	94	95	92	93	90	---	Note (1)
Strength Factor	0.87	0.88	0.90	0.88	0.86	0.96	---	Note (1)
Standard Consistence (%)	27.0	28.5	31.0	28.5	29.5	28.0	---	---
Initial Setting Time (min)	200	245	215	240	290	290	---	Not less than the initial setting time of the Portland cement used
Soundness (mm)	0.5	1.5	1.5	1.5	1.0	2.0	---	Not more than 10 mm
Portland Cement used								
Brand	Champion	Champion	Champion	Champion	Champion	Champion	---	---
Lab. Reference No.	2500005, 2500006	243218CE253762, 243218CE253762(1)	243218CE254051, 243218CE254051(1)	243218CE254247, 243218CE254247(1)	243218CE263037, 243218CE263037(1)	243218CE263248, 243218CE263248(1)	---	---
Initial Setting Time (min)	190	170	155	185	210	215	---	---
Chemical Composition								
Moisture Content (%)	0.1	0.3	<0.1	0.2	<0.1	Note (2)	---	Not more than 0.5%
Loss-on-ignition (%)	<0.5	0.9	0.6	0.9	0.7	Note (2)	---	Not more than 7%
Sulphate Content, expressed as SO ₃ (%)	1.0	1.0	0.7	0.6	0.7	Note (2)	---	Not more than 2.0%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (2)	---	Not more than 0.1%
Calcium Oxide Content (%)	10.8	8.9	8.7	6.9	4.7	Note (2)	---	Not more than 10.0%
K ₂ O (%)	1.0	1.1	1.1	1.2	1.0	Note (2)	---	---
Na ₂ O (%)	0.7	0.9	2.0	1.0	0.8	Note (2)	---	---
Total Alkali (Na ₂ O Eq.) (%)	1.3	1.6	2.7	1.8	1.5	Note (2)	---	---

Note: (1) In accordance with GS16.07(b), the criteria for water requirement and strength factor at 28 days shall not apply, but the values of water requirement and strength factor at 28 days shall be reported.

Note: (2) Test not arranged in this period.

Laboratory Reference	2500052, 2500053	2500085, 2500086	2500121, 2500122	2500171, 2500172	2600019, 2600020	2600055, 2600056	2600097, 2600098	BS3892:Part 1: 1997
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Specification
Physical Properties								
Fineness (%)	9.6	8.1	11.9	4.8	10.1	6.1	8.9	Not more than 12%
Particle Density (kg/m ³)	2270	2450	2270	2620	2400	2530	2350	Not less than 2000 kg/m ³
Water Requirement (%)	96	94	95	89	92	90	92	Note (1)
Strength Factor ---	0.83	0.85	0.85	0.96	0.87	0.94	0.92	Note (1)
Standard Consistence (%)	29.0	29.0	30.0	26.5	28.0	27.0	28.0	---
Initial Setting Time (min)	200	260	230	230	270	285	270	Not less than the initial setting time of the Portland cement used
Soundness (mm)	0.5	1.0	1.0	2.0	1.0	2.0	1.0	Not more than 10 mm
Portland Cement used								
Brand	Champion	Champion	Champion	Champion	Champion	Champion	Champion	---
Lab. Reference No.	2500005, 2500006	243218CE253762, 243218CE253762(1)	243218CE254051, 243218CE254051(1)	243218CE254247, 243218CE254247(1)	243218CE263037, 243218CE263037(1)	243218CE263248, 243218CE263248(1)	243218CE263480, 243218CE263480(1)	---
Initial Setting Time (min)	190	170	155	185	210	215	185	---
Chemical Composition								
Moisture Content (%)	0.2	0.1	0.1	0.1	<0.1	Note (2)	<0.1	Not more than 0.5%
Loss-on-ignition (%)	2.3	1.3	3.2	0.8	1.1	Note (2)	2.2	Not more than 7%
Sulphate Content, expressed as SO ₃ (%)	<0.5	0.80	<0.5	1.1	0.5	Note (2)	<0.5	Not more than 2.0%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (2)	<0.05	Not more than 0.1%
Calcium Oxide Content (%)	2.3	8.8	3.1	12.8	7.2	Note (2)	4.3	Not more than 10.0%
K ₂ O (%)	0.9	1.1	0.8	1.4	1.3	Note (2)	1.0	---
Na ₂ O (%)	0.8	1.1	1.2	1.0	1.1	Note (2)	0.7	---
Total Alkali (Na ₂ O Eq.) (%)	1.3	1.9	1.8	2.0	2.0	Note (2)	1.4	---

Note: (1) In accordance with GS16.07(b), the criteria for water requirement and strength factor at 28 days shall not apply, but the values of water requirement and strength factor at 28 days shall be reported.

Note: (2) Test not arranged in this period.

11 Redland (東莞煤灰) / Sha Kok Power Station Plant C - Dong Guan PRC
(Pulverised-fuel Ash)

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Laboratory Reference	2500054, 2500055	2500087, 2500088	2500123, 2500124	2500173, 2500174	2600021, 2600022	2600057, 2600058	2600099, 2600100	BS3892:Part 1: 1997
Date of Sample Received	7/5/2025	09/07/2025	05/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Specification
Physical Properties								
Fineness (%)	5.6	7.3	7.3	4.9	4.9	7.7	6.4	Not more than 12%
Particle Density (kg/m ³)	2560	2470	2440	2370	2410	2390	2410	Not less than 2000 kg/m ³
Water Requirement (%)	90	90	90	92	92	90	91	Note (1)
Strength Factor ---	0.96	0.97	0.97	0.86	0.85	0.89	0.90	Note (1)
Standard Consistence (%)	25.0	26.0	27.0	27.5	27.5	27.0	27.0	---
Initial Setting Time (min)	190	230	240	275	285	290	270	Not less than the initial setting time of the Portland cement used
Soundness (mm)	1.0	1.0	1.0	2.0	2.0	2.0	2.0	Not more than 10 mm
Portland Cement used								
Brand	Champion	Champion	Champion	Champion	Champion	Champion	Champion	---
Lab. Reference No.	2500005, 2500006	243218CE253762, 243218CE253762(1)	243218CE254051, 243218CE254051(1)	243218CE254247, 243218CE254247(1)	243218CE263037, 243218CE263037(1)	243218CE263248, 243218CE263248(1)	243218CE263480, 243218CE263480(1)	---
Initial Setting Time (min)	190	170	155	185	210	215	185	---
Chemical Composition								
Moisture Content (%)	<0.1	0.1	<0.1	0.2	<0.1	Note (2)	<0.1	Not more than 0.5%
Loss-on-ignition (%)	0.8	0.9	0.7	1.3	1.2	Note (2)	1.0	Not more than 7%
Sulphate Content, expressed as SO ₃ (%)	1.4	1.0	0.7	0.8	0.8	Note (2)	0.9	Not more than 2.0%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (2)	<0.05	Not more than 0.1%
Calcium Oxide Content (%)	18.3	11.2	8.9	6.4	7.0	Note (2)	8.3	Not more than 10.0%
K ₂ O (%)	1.1	1.2	1.6	1.2	1.4	Note (2)	1.3	---
Na ₂ O (%)	1.5	1.6	2.5	1.1	1.3	Note (2)	1.8	---
Total Alkali (Na ₂ O Eq.) (%)	2.2	2.4	3.6	1.9	2.2	Note (2)	2.6	---

Note: (1) In accordance with GS16.07(b), the criteria for water requirement and strength factor at 28 days shall not apply, but the values of water requirement and strength factor at 28 days shall be reported.

Note: (2) Test not arranged in this period.

12 Green Slag (綠保牌) / Green Island Cement Co., Ltd.
(Ground granulated blast furnace slag)

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Laboratory Reference	25B0001, 25B0002	2500001, 2500002	2500003, 2500004	2500019, 2500020	2600001, 2600002	2600011, 2600012	2600021, 2600022	BS EN 15167-1:2006
Date of Sample Received	7/5/2025	9/7/2025	5/9/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Hong Kong SAR, China	Specification
Physical Properties								
Standard Consistence (%)	30.0	30.0	30.5	30.5	30.0	30.5	30.0	Not specified
Initial Setting Time (min)	165	185	170	200	180	225	170	≤ twice of initial setting time for Portland cement used
Density (kg/m ³)	2890	2870	2850	2880	2880	2860	2870	Not specified
Fineness : Specific surface (m ² /kg)	466	546	497	487	510	491	511	≥ 275 m ² /kg
Activity Index :								
7 days (%)	59	74	67	66	54	59	65	≥ 45 %
28 days (%)	90	90	94	91	84	85	94	≥ 70 %
Portland Cement used								
Brand	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	---
Lab. Reference No.	2500001, 2500002	243218CE253766	243218CE254055	243218CE254251	243218CE263041, 243218CE263041(1)	243218CE263252, 243218CE263252(1)	243218CE263484, 243218CE263484(1)	---
Initial Setting Time (min)	115	135	140	170	135	165	135	---
Chemical Composition								
Loss-on-ignition (%)	0.7	1.1	0.9	1.1	0.8	Note (1)	1.3	≤ 3.0%
Sulphate Content, expressed as SO ₃ (%)	<0.5	<0.5	<0.5	<0.5	<0.5	Note (1)	<0.5	≤ 2.5%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (1)	<0.05	≤ 0.10%
Magnesium Oxide Content (%)	5.1	6.5	6.1	8.2	6.4	Note (1)	6.4	≤ 18%
Moisture Content (%)	<0.2	0.2	0.2	<0.2	<0.2	Note (1)	0.5	≤ 1.0%
Sulphide Content (%)	0.9	1.0	1.0	0.8	0.7	Note (1)	0.8	≤ 2.0%
K ₂ O (%)	---	---	---	0.33	0.36	Note (1)	0.38	---
Na ₂ O (%)	---	---	---	0.20	0.20	Note (1)	0.20	---
Total Alkali (Na ₂ O Eq.) (%)	---	---	---	0.41	0.44	Note (1)	0.45	---

Note: (1) Test not arranged in this period.

13 Champion (一品牌) / 柳州台泥新型建材有限公司
(Ground granulated blast furnace slag)

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Laboratory Reference	2500007, 2500008	2500013, 2500014	2500027, 2500028	2500035, 2500036	2600003, 2600004	2600013, 2600014	2600023, 2600024	BS EN 15167-1:2006
Date of Sample Received	7/5/2025	09/07/2025	10/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Specification
Physical Properties								
Standard Consistence (%)	28.5	28.5	29.0	30.5	30.5	30.5	30.5	Not specified
Initial Setting Time (min)	155	160	140	185	180	195	170	≤ twice of initial setting time for Portland cement used
Density (kg/m ³)	2890	2890	2990	2870	2900	2890	2910	Not specified
Fineness : Specific surface (m ² /kg)	427	413	448	418	454	394	421	≥ 275 m ² /kg
Activity Index :								
7 days (%)	64	64	64	67	68	64	63	≥ 45 %
28 days (%)	95	97	90	88	94	88	93	≥ 70 %
Portland Cement used								
Brand	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	---
Lab. Reference No.	2500001, 2500002	2500001, 2500002	CLCEM2500133, CLGGB2500032	243218CE254251	243218CE263041, 243218CE263041(1)	243218CE263252, 243218CE263252(1)	243218CE263484, 243218CE263484(1)	---
Initial Setting Time (min)	115	115	125	135	135	165	135	---
Chemical Composition								
Loss-on-ignition (%)	1.3	1.0	1.0	1.2	<0.5	Note (1)	<0.5	≤ 3.0%
Sulphate Content, expressed as SO ₃ (%)	<0.5	<0.5	<0.5	<0.5	<0.5	Note (1)	<0.5	≤ 2.5%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	0.07	Note (1)	<0.05	≤ 0.10%
Magnesium Oxide Content (%)	6.7	7.0	6.8	7.4	8.5	Note (1)	6.4	≤ 18%
Moisture Content (%)	0.3	<0.2	<0.2	0.2	<0.2	Note (1)	<0.2	≤ 1.0%
Sulphide Content (%)	0.8	0.8	<0.7	<0.7	1.0	Note (1)	0.9	≤ 2.0%
K ₂ O (%)	---	---	---	0.43	0.41	Note (1)	0.46	---
Na ₂ O (%)	---	---	---	0.34	0.43	Note (1)	0.30	---
Total Alkali (Na ₂ O Eq.) (%)	---	---	---	0.62	0.7	Note (1)	0.60	---

Note: (1) Test not arranged in this period.

14 Bao Tian Pai (寶田牌) / 寶武環科(湛江)資源循環利用有限公司
(Ground granulated blast furnace slag)

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Laboratory Reference	2500009, 2500010	2500015, 2500016	2500029, 2500030	2500037, 2500038	2600005, 2600006	2600015, 2600016	2600025, 2600026	BS EN 15167-1:2006
Date of Sample Received	7/5/2025	09/07/2025	11/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Specification
Physical Properties								
Standard Consistence (%)	30.0	30.0	30.0	30.0	30.5	30.5	30.5	Not specified
Initial Setting Time (min)	150	175	140	160	185	200	170	≤ twice of initial setting time for Portland cement used
Density (kg/m ³)	2900	2880	3060	2930	2910	2890	2870	Not specified
Fineness : Specific surface (m ² /kg)	471	436	490	484	392	432	489	≥ 275 m ² /kg
Activity Index :								
7 days (%)	65	71	74	65	64	70	69	≥ 45 %
28 days (%)	99	98	100	89	90	93	93	≥ 70 %
Portland Cement used								
Brand	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	---
Lab. Reference No.	2500001, 2500002	2500001, 2500002	CLCEM2500133, CLGGB2500032	CLCEM2500133, CLGGB2500032	243218CE26041, 243218CE263041(1)	243218CE263252, 243218CE263252(1)	243218CE263484, 243218CE263484(1)	---
Initial Setting Time (min)	115	115	125	125	135	165	135	---
Chemical Composition								
Loss-on-ignition (%)	<0.5	0.6	<0.5	<0.5	<0.5	Note (1)	1.0	≤ 3.0%
Sulphate Content, expressed as SO ₃ (%)	<0.5	<0.5	<0.5	<0.5	<0.5	Note (1)	<0.5	≤ 2.5%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (1)	<0.05	≤ 0.10%
Magnesium Oxide Content (%)	7.3	7.7	8.2	7.2	6.8	Note (1)	7.6	≤ 18%
Moisture Content (%)	0.2	<0.2	0.2	<0.2	<0.2	Note (1)	0.4	≤ 1.0%
Sulphide Content (%)	1.0	1.0	0.9	1.0	1.0	Note (1)	1.1	≤ 2.0%
K ₂ O (%)	---	---	---	0.24	0.23	Note (1)	0.29	---
Na ₂ O (%)	---	---	---	0.28	0.32	Note (1)	0.33	---
Total Alkali (Na ₂ O Eq.) (%)	---	---	---	0.44	0.47	Note (1)	0.52	---

Note: (1) Test not arranged in this period.

15 SGJY (韶鋼嘉羊) / 廣東韶鋼嘉羊新型材料有限公司
(Ground granulated blast furnace slag)

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Laboratory Reference	2500005, 2500006	2500017, 2500018	2500031, 2500032	2500039, 2500040	2600007, 2600008	2600017, 2600018	2600027, 2600028	BS EN 15167-1:2006
Date of Sample Received	7/5/2025	09/07/2025	11/09/2025	03/11/2025	05/01/2026	06/03/2026	14/05/2026	
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland	Specification
Physical Properties								
Standard Consistence (%)	29.0	29.0	29.0	29.0	30.0	30.5	30.5	Not specified
Initial Setting Time (min)	175	175	170	165	180	210	180	≤ twice of initial setting time for Portland cement used
Density (kg/m ³)	2910	2870	3040	2920	2840	2890	2890	Not specified
Fineness : Specific surface (m ² /kg)	410	425	448	408	426	409	427	≥ 275 m ² /kg
Activity Index :								
7 days (%)	63	67	67	65	71	70	75	≥ 45 %
28 days (%)	97	100	100	91	96	89	100	≥ 70 %
Portland Cement used								
Brand	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	Special Green Island	---
Lab. Reference No.	2500001, 2500002	2500001, 2500002	CLCEM2500133, CLGGB2500032	CLCEM2500133, CLGGB2500032	243218CE26041, 243218CE263041(1)	243218CE263252, 243218CE263252(1)	243218CE263484, 243218CE263484(1)	---
Initial Setting Time (min)	115	115	125	125	135	165	135	---
Chemical Composition								
Loss-on-ignition (%)	<0.5	0.5	<0.5	<0.5	<0.5	Note (1)	<0.5	≤ 3.0%
Sulphate Content, expressed as SO ₃ (%)	<0.5	<0.5	0.5	<0.5	<0.5	Note (1)	<0.5	≤ 2.5%
Chloride Content (%)	<0.05	<0.05	<0.05	<0.05	<0.05	Note (1)	<0.05	≤ 0.10%
Magnesium Oxide Content (%)	7.2	7.6	8.4	7.5	7.3	Note (1)	7.6	≤ 18%
Moisture Content (%)	0.2	<0.2	<0.2	<0.2	<0.2	Note (1)	0.3	≤ 1.0%
Sulphide Content (%)	1.1	0.9	1.0	1.1	0.9	Note (1)	1.1	≤ 2.0%
K ₂ O (%)	---	---	---	0.36	0.39	Note (1)	0.39	---
Na ₂ O (%)	---	---	---	0.33	0.33	Note (1)	0.38	---
Total Alkali (Na ₂ O Eq.) (%)	---	---	---	0.57	0.58	Note (1)	0.64	---

Note: (1) Test not arranged in this period.

16 ECO (環建牌) / 河北唐銀鋼鐵有限公司
(Ground granulated blast furnace slag)

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Laboratory Reference	2500041, 2500042	2600009, 2600010	2600019, 2600020	2600029, 2600030				BS EN 15167-1:2006
Date of Sample Received	03/11/2025	05/01/2026	06/03/2026	14/05/2026				
Origin Stated By The Supplier	Chinese Mainland	Chinese Mainland	Chinese Mainland	Chinese Mainland				Specification
Physical Properties								
Standard Consistence (%)	29.5	30.0	30.5	30.5				Not specified
Initial Setting Time (min)	170	180	210	180				≤ twice of initial setting time for Portland cement used
Density (kg/m ³)	2940	2880	2880	2910				Not specified
Fineness : Specific surface (m ² /kg)	434	454	422	480				≥ 275 m ² /kg
Activity Index :								
7 days (%)	78	78	64	71				≥ 45 %
28 days (%)	106	97	84	93				≥ 70 %
Portland Cement used								
Brand	Special Green Island CLCEM2500133, CLGGB2500032	Special Green Island 243218CE26041 243218CE263041(1)	Special Green Island 243218CE263252, 243218CE263252(1)	Special Green Island 243218CE263484, 243218CE263484(1)				---
Lab. Reference No.								---
Initial Setting Time (min)	125	135	165	135				---
Chemical Composition								
Loss-on-ignition (%)	<0.5	<0.5	Note (1)	<0.5				≤ 3.0%
Sulphate Content, expressed as SO ₃ (%)	<0.5	<0.5	Note (1)	<0.5				≤ 2.5%
Chloride Content (%)	<0.05	<0.05	Note (1)	0.06				≤ 0.10%
Magnesium Oxide Content (%)	11.0	8.1	Note (1)	7.8				≤ 18%
Moisture Content (%)	<0.2	<0.2	Note (1)	0.3				≤ 1.0%
Sulphide Content (%)	0.9	1.1	Note (1)	1.3				≤ 2.0%
K ₂ O (%)	0.25	0.38	Note (1)	0.26				---
Na ₂ O (%)	0.27	0.39	Note (1)	0.54				---
Total Alkali (Na ₂ O Eq.) (%)	0.44	0.64	Note (1)	0.71				---

Note: (1) Test not arranged in this period.