

Agro Testing

CERTIFICATE OF ANALYSIS

KIWA PAI
The Inspire
Hornbeam Square West
Harrogate
North Yorkshire
HG2 8PA

Report Date 19 September 2023
ATL Reference A-KIW001/237/23-11
Date Received 25 August 2023
Test Date 25 August 2023
Purchase Order 1000362881
Sampled By Samples as Received

Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information *	Penderyn Quarry (Ground Limestone)	
Batch Code	Hanson Aggregates	AGL 0075

Method	Method Reference	Result	Unit	Status	
Calcium as Ca	010-018	36.3	% m/m	N	
Calcium as CaO	010-018	50.8	% m/m	N	
Magnesium as Mg	010-018	0.8	% m/m	N	
Magnesium as MgO	010-018	1.40	% m/m	N	
Wet sieving <5.0mm	010-012	100	% m/m	N	Pass Lower Limit: 99.99 Upper Limit: 100
Wet sieving <3.35mm	010-012	98.6	% m/m	N	Pass Lower Limit: 95 Upper Limit: 100
Wet sieving <3.15mm	010-012	97.0	% m/m	N	
Wet sieving <2.00mm	010-012	82.2	% m/m	N	
Wet sieving <1.00mm	010-012	55.5	% m/m	N	
Wet sieving <0.600mm	010-012	42.8	% m/m	N	
Wet sieving <0.500mm	010-012	39.7	% m/m	N	
Wet sieving <0.315mm	010-012	31.0	% m/m	N	
Wet sieving <0.150mm	010-012	21.6	% m/m	N	Fail Lower Limit: 40 Upper Limit: 100
Wet sieving <0.100mm	010-012	17.9	% m/m	N	
Reactivity (HCL)	010-010	49.3	%	N	
Neutralising Value as CaO - sample as received basis	010-011	51.1	% m/m (SAR)	N	

Analysis Status Code
Analysis is UKAS accredited. U
Analysis is not UKAS accredited. N

*Sample information as supplied by Customer.

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Penderyn Quarry (Ground Limestone)	
Batch Code Hanson Aggregates	AGL 0075

<u>Method</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	1.4	%	N

Authorised By: Steve Johnson, Senior Analyst (Chemistry)



<u>Analysis Status</u>	<u>Code</u>
Analysis is UKAS accredited.	U
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Date Received 25 August 2023
Test Date 25 August 2023
Purchase Order 1000362881
Sampled By Samples as Received

Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Machen Quarry (Ground Limestone)
Batch Code Hanson Aggregates AGL 0076

Method	Method Reference	Result	Unit	Status	
Calcium as Ca	010-018	18.9	% m/m	N	
Calcium as CaO	010-018	26.5	% m/m	N	
Magnesium as Mg	010-018	10.0	% m/m	N	
Magnesium as MgO	010-018	16.6	% m/m	N	
Wet sieving <5.0mm	010-012	100	% m/m	N	Pass Lower Limit: 99.99 Upper Limit: 100
Wet sieving <3.35mm	010-012	99.1	% m/m	N	Pass Lower Limit: 95 Upper Limit: 100
Wet sieving <3.15mm	010-012	98.4	% m/m	N	
Wet sieving <2.00mm	010-012	87.8	% m/m	N	
Wet sieving <1.00mm	010-012	60.1	% m/m	N	
Wet sieving <0.600mm	010-012	46.6	% m/m	N	
Wet sieving <0.500mm	010-012	43.1	% m/m	N	
Wet sieving <0.315mm	010-012	34.0	% m/m	N	
Wet sieving <0.150mm	010-012	24.9	% m/m	N	Fail Lower Limit: 40 Upper Limit: 100
Wet sieving <0.100mm	010-012	21.0	% m/m	N	
Reactivity (HCL)	010-010	18.1	%	N	
Neutralising Value as CaO - sample as received basis	010-011	48.0	% m/m (SAR)	N	

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Test Date 25 August 2023
Purchase Order 1000362881
Sampled By Samples as Received

Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information *	Machen Quarry (Ground Limestone)	
Batch Code	Hanson Aggregates	AGL 0076

<u>Method</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	5.5	%	N

Authorised By: Steve Johnson, Senior Analyst (Chemistry)



<u>Analysis Status</u>	<u>Code</u>
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Date Received 25 August 2023
Test Date 25 August 2023
Purchase Order 1000362881
Sampled By Samples as Received

Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Litalun Quarry (Ground Limestone)
Batch Code Hanson Aggregates AGL 0074

Method	Method Reference	Result	Unit	Status	
Calcium as Ca	010-018	37.6	% m/m	N	
Calcium as CaO	010-018	52.6	% m/m	N	
Magnesium as Mg	010-018	1.4	% m/m	N	
Magnesium as MgO	010-018	2.40	% m/m	N	
Wet sieving <5.0mm	010-012	100	% m/m	N	Pass Lower Limit: 99.99 Upper Limit: 100
Wet sieving <3.35mm	010-012	99.3	% m/m	N	Pass Lower Limit: 95 Upper Limit: 100
Wet sieving <3.15mm	010-012	98.9	% m/m	N	
Wet sieving <2.00mm	010-012	89.6	% m/m	N	
Wet sieving <1.00mm	010-012	63.4	% m/m	N	
Wet sieving <0.600mm	010-012	47.7	% m/m	N	
Wet sieving <0.500mm	010-012	44.4	% m/m	N	
Wet sieving <0.315mm	010-012	34.0	% m/m	N	
Wet sieving <0.150mm	010-012	22.4	% m/m	N	Fail Lower Limit: 40 Upper Limit: 100
Wet sieving <0.100mm	010-012	18.2	% m/m	N	
Reactivity (HCL)	010-010	54.2	%	N	
Neutralising Value as CaO - sample as received basis	010-011	55.7	% m/m (SAR)	N	

Analysis Status Code
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Date Received 25 August 2023
Test Date 25 August 2023
Purchase Order 1000362881
Sampled By Samples as Received

Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Batts Combe Quarry (Ground Limestone)
Batch Code Hanson Aggregates AGL 0025

Method	Method Reference	Result	Unit	Status	
Calcium as Ca	010-018	38.3	% m/m	N	
Calcium as CaO	010-018	53.7	% m/m	N	
Magnesium as Mg	010-018	1.0	% m/m	N	
Magnesium as MgO	010-018	1.60	% m/m	N	
Wet sieving <5.0mm	010-012	100	% m/m	N	Pass Lower Limit: 99.99 Upper Limit: 100
Wet sieving <3.35mm	010-012	100	% m/m	N	Pass Lower Limit: 95 Upper Limit: 100
Wet sieving <3.15mm	010-012	100	% m/m	N	
Wet sieving <2.00mm	010-012	89.3	% m/m	N	
Wet sieving <1.00mm	010-012	60.6	% m/m	N	
Wet sieving <0.600mm	010-012	45.2	% m/m	N	
Wet sieving <0.500mm	010-012	41.4	% m/m	N	
Wet sieving <0.315mm	010-012	31.4	% m/m	N	
Wet sieving <0.150mm	010-012	20.2	% m/m	N	Fail Lower Limit: 40 Upper Limit: 100
Wet sieving <0.100mm	010-012	16.0	% m/m	N	
Reactivity (HCL)	010-010	54.3	%	N	
Neutralising Value as CaO - sample as received basis	010-011	56.1	% m/m (SAR)	N	

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information *	Batts Combe Quarry (Ground Limestone)	
Batch Code	Hanson Aggregates	AGL 0025

<u>Method</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	0.2	%	N

Authorised By: Steve Johnson, Senior Analyst (Chemistry)



<u>Analysis Status</u>	<u>Code</u>
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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information * Batts Combe Quarry (Ground Limestone - Fines Plant L101)
Batch Code Hanson Aggregates AGL 0025

Method	Method Reference	Result	Unit	Status	
Calcium as Ca	010-018	37.6	% m/m	N	
Calcium as CaO	010-018	52.6	% m/m	N	
Magnesium as Mg	010-018	1.4	% m/m	N	
Magnesium as MgO	010-018	2.40	% m/m	N	
Wet sieving <5.0mm	010-012	100	% m/m	N	Pass Lower Limit: 99.99 Upper Limit: 100
Wet sieving <3.35mm	010-012	100	% m/m	N	Pass Lower Limit: 95 Upper Limit: 100
Wet sieving <3.15mm	010-012	100	% m/m	N	
Wet sieving <2.00mm	010-012	99.9	% m/m	N	
Wet sieving <1.00mm	010-012	99.9	% m/m	N	
Wet sieving <0.600mm	010-012	99.9	% m/m	N	
Wet sieving <0.500mm	010-012	99.9	% m/m	N	
Wet sieving <0.315mm	010-012	99.8	% m/m	N	
Wet sieving <0.150mm	010-012	95.8	% m/m	N	Pass Lower Limit: 40 Upper Limit: 100
Wet sieving <0.100mm	010-012	83.2	% m/m	N	
Reactivity (HCL)	010-010	98.1	%	N	
Neutralising Value as CaO - sample as received basis	010-011	56.1	% m/m (SAR)	N	

Analysis Status	Code
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Analysis is not UKAS accredited.	N

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Sample of: Fertilisers , Date |Time Taken: 09/08/2023|Unknown

Sample Information *	Batts Combe Quarry (Ground Limestone - Fines Plant L101)	
Batch Code	Hanson Aggregates	AGL 0025

<u>Method</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Status</u>
Moisture (Loss at 105°C)	010-002	<0.1	%	N

Authorised By: Steve Johnson, Senior Analyst (Chemistry)



<u>Analysis Status</u>	<u>Code</u>
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