



ALLIANCE TECHNICAL LABORATORIES

Analytical @ Consultant Chemists @ Microbiologists

Resource Services Limited
Ipswich Road, Needham Market
Suffolk IP6 8EL

Laboratory Test Report

Recycled gypsum samples as received: 28 August 2013.

Standard Reference - PAS109:2013

Report Date: 9 September 2013.

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Laboratory Sample Numbers: 130178-130182

Purchase Order Number: TBA

Results of analysis:

	130178	130179	130180	130181	130182		Specifications	
							Agriculture	non Agriculture
Calcium as CaO	32.9	30.1	30.2	30.8	29.7	% m/m		
Calcium as Ca	23.5	21.5	21.6	22.0	21.2	% m/m		
Potassium as K ₂ O	0.16	0.14	0.11	0.11	0.11	% m/m		
Potassium as K	0.13	0.12	0.09	0.09	0.09	% m/m		
Sulphur as SO ₃	40.5	39.3	39.8	40.3	37.8	% m/m		
Sulphur as S	16.2	15.7	15.9	16.1	15.1	% m/m		
Purity as CaSO ₄ .2H ₂ O	>95	92	93	94	91	% m/m	> 85%	> 85%
Chloride as Cl	0.02	0.02	0.01	0.02	0.01	% m/m	< 0.1%	< 0.02%
Magnesium as MgO	0.55	0.77	0.62	0.57	0.77	% m/m	n/a	< 0.2%
Magnesium as Mg	0.33	0.46	0.37	0.34	0.46	% m/m		
Sodium as Na ₂ O	0.051	0.050	0.050	0.047	0.047	% m/m	< 0.06%	< 0.06%
Sodium as Na	0.038	0.037	0.037	0.035	0.035	% m/m		
Colour and smell	normal	normal	normal	normal	normal			

% m/m = % by mass/mass of sample as received.

Purity is calculated from the calcium content.

Analysis by ICP-OES (colorimetry for chloride), code GN.

Report by: S. Johnson

Alliance Technical Laboratories Limited

Tel. 01449-721192

Analysis Status

Analysis is UKAS accredited

Analysis is not UKAS accredited

Analysis was carried out by ATLL

Analysis was sub-contracted to another laboratory

Any opinions or interpretations are outside the laboratory's UKAS accreditation

Code

U

N

G

S

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