

Certificate of Analysis (COA)



COMPANY : Idwala Lime-Danielskuil
FAX NUMBER : 016 4212369
FROM : Risk Manager
Report Date : 30 Oct 25
PAGES : 1
RE : Hydrated Lime (SABS)

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Dear Sir / Madam

Sample Date : Oct 25

Hydrated Lime Composite Chemical Analysis (%) [WI 10.3.49]

T/CaO : 72.35
MgO : 2.16
SiO₂ : 0.99
Al₂O₃ : 0.33
Fe₂O₃ : 0.32
Mn₂O₃ : 1.20
SO₃ : 0.12
K₂O : 0.04

"As is" Hydrate Results

Ca(OH)₂ : 92.37
CaCO₃ : 2.65
CaSO₄ : 0.16
Mg(OH)₂ : 2.46
SiO₂ : 0.78
Fe₂O₃ : 0.26
Al₂O₃ : 0.25
Mn₂O₃ : 0.94
SO₃ : 0.09
K₂O : 0.03

Loss on Ignition Analysis (%) [WI 10.3.12]

L.O.I. : 23.71

Carbon Dioxide Analysis (%) [WI 10.3.60]

CO₂ : 1.48

Free Moisture Analysis (%) [WI 10.3.43]

Free H₂O : 0.65

Standard Available Lime (%) [WI 10.3.62]

Standard : 66.4

Particle Size Distribution (%) [WI 10.3.21]

		Pass through
+4.75mm	: 0.00	
+0.850mm	: 0.08	-4.75mm 100.00
+0.600mm	: 0.35	-0.850mm 99.92
+0.075mm	: 11.12	-0.600mm 99.65
-0.075mm	: 88.5	-0.075mm 88.88

Expansion Results (WI 10.3.21)

Expansion factor : 13.3

Comment on Sample received:

Regards;

C Chankane
Risk Manager

CAUTION : Quality Assurance is done in accordance with SABS ISO 9001:2015.
Legend: WI - Work Instruction



Reference: C25-06 : Standard test methods for chemical analysis of Limestone, Quicklime and Hydrated Lime
i0-00 : Standard practice for Sampling, sampling preparation Packaging and Marking of Lime and Limestone produ
C110-16 : Standard test methods for Physical testing of Quicklime, Hydrated Lime and Limestone
C1271-200 : Standard test method for X-ray Spectrometric analysis of Lime and Limestone.