

CERTIFICATE OF ANALYSIS No. : AS22-189

for SIYANDABLUE

RESULTS “AQUEOUS UREA SOLUTION”

DATE RECEIVED: 29/07/2022

1. Results

Characteristics	Method	Limits		Nominal Value	Unit	Comment
		Min.	Max.			
Urea Content	ISO 22241-1	31.8	33.2	31.9	% (m/m)	Complies
Density at 20°C	ISO 22241-1	1087.0	1093.0	1087.1	kg/m ³	Complies
Refractive Index at 20 °C	ISO 22241-1	1.3814	1.3843	1.3843		Complies
Alkalinity as NH ₃	ISO 22241-1		0.2	< 0.2	% (m/m)	Complies
Biuret	ISO 22241-1		0.3	< 0.2	% (m/m)	Complies
Aldehydes	ISO 22241-1		5	4.5	mg/kg	Complies
Insolubles	ISO 22241-1		20	12	mg/kg	Complies
Phosphate (PO ₄)	ISO 22241-1		0.5	0.3	mg/kg	Complies
Calcium	ISO 22241-1		0.5	≤0.01	mg/kg	Complies
Iron	ISO 22241-1		0.5	≤0.01	mg/kg	Complies
Copper	ISO 22241-1		0.2	≤0.01	mg/kg	Complies
Zinc	ISO 22241-1		0.2	≤0.01	mg/kg	Complies
Chromium	ISO 22241-1		0.2	≤0.01	mg/kg	Complies
Nickel	ISO 22241-1		0.2	≤0.01	mg/kg	Complies
Aluminium	ISO 22241-1		0.5	≤0.01	mg/kg	Complies
Magnesium	ISO 22241-1		0.5	≤0.01	mg/kg	Complies
Sodium	ISO 22241-1		0.5	≤0.01	mg/kg	Complies
Potassium	ISO 22241-1		0.5	≤0.01	mg/kg	Complies

2. Comment

- 2.1 Product labelled as “Adblue”
- 2.2 All requirements of both ISO 22241-1 and ISO 22241-2 complied with.
- 2.3 Results as indicated in the table above.

TEST REPORT

REPORT NO.: AS-22-189

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ANALYSIS ACCORDING TO ISO 22241-1

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Dr RF van de Water
Responsible Laboratory Manager
Pr.Sci.Nat. (Practice number 114194)

Date: 03 August 2022

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