



CERTIFICATE / TEST REPORT

UBSA (Pty) Ltd

Reference No. : 22/05649/M-3



Attention:
 Date :
 Sample Description:
 Subject:
 Date Received:
 Issued at :
 SAMPLE MARK:
 Lab Number:
 Nominal Top Size (mm):
 Mass as Received (kg)
 Client Instruction No.

Fahim Mahomed
 06/12/2022
 Coal Samples (Not Securely Closed)
 Coal Samples for analysis
 05/12/2022
 Middelburg
 WASHED RB1 05/12/2022
 2274605
 +/-50mm
 35,21
 1201

DETERMINATION	AS	AIR	DRY
	RECEIVED	DRY	
TOTAL MOISTURE%	9,8		
INHERENT MOISTURE %		4,4	
VOLATILE MATTER %	27,4	29,0	30,3
ASH %	13,7	14,5	15,2
FIXED CARBON(Cal)%	49,2	52,1	54,5
SULPHUR %	0,87	0,92	0,96
GROSS CV(Mj/kg)	25,03	26,53	27,75
GROSS CV(kcal)	5978	6337	6628
GROSS CV (BTU/lb)	10761	11406	11931
NETT CV(MJ/kg)ISO constant volume	24,01	25,58	26,87
NETT CV(kcal)ISO constant volume	5734	6111	6418
NETT CV (BTU/lb)ISO constant volume	10322	10999	11552
NETT CV(MJ/kg)ASTM constant pressure	23,97	25,55	26,83
NETT CV(Kcal)ASTM constant pressure	5724	6102	6409
NETT CV (BTU/lb)ASTM constant pressure	10301	10980	11533
HYDROGEN % (by calculation)	3,87	4,10	4,29
TOTAL HYDROGEN % (by calculation)	4,97	4,59	4,29

RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED
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Tests marked with an asterisk (*) do not form part of the scope of SANAS accredited tests. All other tests in this report are included in the SANAS Schedule of Accreditation for this laboratory. Results reported are only representative of the sample received for testing. While every endeavour has been made to ensure that the results reported are accurate, Bureau Veritas Inspectorate Laboratories shall not be liable for any error nor for any damage or loss what so ever that may arise from the issuing of this certificate. This certificate may not be reproduced in part or full without written permission from the Technical Managers of Bureau Veritas Inspectorate Laboratories.

Katoma

Authorised Signature
 Tafadzwa Genius Katoma
 Results Coordinator

Remarks
Note (1) The mass of the sample supplied was below the minimum mass required as per ISO 18283:2006(E).
Note (2) The Nominal Top Size is +/-50mm.
Note (3) Samples were delivered to BV by client.
Note (4) Only reports issued with the PDF including a QR code are deemed to be valid.

Method	
Moisture %	BV-CTD-T4-WI-MIAS (Based on SANS 5925)
Volatile %	BV-CTD-T4-WI-Volatile (Based on ISO 562)
Ash %	BV-CTD-T4-WI-Ash (Based on ISO 1171)
Total Sulphur %	BV-CTD-T4-WI-Sulphur (Based on ASTM: D4239 & ISO19579)
Gross CV(MJ/kg)	BV-CTD-T4-WI- CV (Based on ISO 1928)
Sample Preparation	BV-CTD-T7-WI-Prep (Based on ISO 18283 Par 8)
Sampling	*BV-CTD-T7-WI-Prep (Based on ISO 18283)
Fixed Carbon (by diff)	BV-CTD-T10-QP-Reporting (Reference to ISO 17246)
Hydrogen %	*By Calculation
Total Moisture %	BV-CTD-T7-WI Total Moisture (Based on ISO 589)
Analysis marked with * NOT SANAS ACCREDITED.	