

SGS IMME Mongolia LLC

MRN: 5616077

Energy Resource LLC

TTD: 2887746
Central Tower, 15th Floor, Suite 7, Sukhbaatar Square 2
Sukhbaatar District,-8
Mongolia

Lab Ref: UC004516

Client Ref: **230917**

Project: Coal

Sample type

Status: Final

Received: 9/17/23

Started: 9/17/23

Reported: 9/18/23

Samples: 1

First Sample: HCC_230912

Last Sample: HCC_230912

Pages: 6

Result apply to sample as submitted.

Notes

Authorised by



On behalf of:

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UC004516

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Uildveriin toirog 101 toot
 20th Khoroo
 Bayangol Duureg
 Ulaanbaatar 36, Mongolia

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ANALYTICAL REPORT

Scheme	ASTM3302	ASTM3302	ISO11722:2013	ISO 1171:2010	ISO 1171:2010	ISO 1171:2010
Units	%	%	%	%	%	%
Detection Limit	0.1	0.1	0.1	0.5	0.5	0.5
Upper Limit	50	50	50	99	99	99
	Moisture, Total	Air Dry Loss	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
HCC_230912	7.54	5.89	1.76	9.95	10.57	10.76

- not analysed / -- element not determined / I.S. insufficient sample / L.N.R. listed not received

Results are not intended for commercial settlement purposes.



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ANALYTICAL REPORT

Scheme	ISO562:2010	ISO562:2010	ISO562:2010	ISO562:2010	ISO 1213-2:2016	ISO 1213-2:2016
Units	AR %	AD %	DB %	DAF %	%	%
Detection Limit	0.1	0.1	0.1	0.1	0.01	0.01
Upper Limit	75	75	75	75	100	100
	VM_ARB	VM_ADB	VM_DB	VM_DAF	FC_ARB	FC_ADB
HCC_230912	20.44	21.72	22.11	24.78	62.07	65.95

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ANALYTICAL REPORT

Scheme	ISO 1213-2:2016	ISO 1213-2:2016	ISO19579:2006	ISO19579:2006	ISO19579:2006	ISO19579:2006
Units	%	%	AR %	AD %	DB %	DAF %
Detection Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	5.21	5.21	5.21	20
	FC_DB	FC_DAF	Sul_ARB	Sul_ADB	Sul_DB	Sul_DAF
HCC_230912	67.13	75.22	0.68	0.72	0.73	0.82

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ANALYTICAL REPORT

Scheme	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	ISO 501:2012	ISO 15585:2019
Units	KCAL/KG	KCAL/KG	KCAL/KG	KCAL/KG	/	/
Detection Limit	0	0	0	0	0	0
Upper Limit	10,000	10,000	10,000	10,000	9	110
	GCV_ARB	GCV_ADB	GCV_DB	GCV_DAF	CSN	G
HCC_230912	7056	7497	7631	8551	6.5	74

- not analysed / -- element not determined / I.S. insufficient sample / L.N.R. listed not received

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Description

ASTM2013 : Standard Practice for Preparing Coal Samples for Analysis

ISO11722 : Determination of moisture in the general analysis test sample by drying nitrogen

ASTM3302 : Moisture, Air-Dry Loss

ISO 1171 : Solid mineral fuels-Determination of ash

ISO501 : Hard coal-Determination of the crucible swelling number

ISO 1213-2 : Fixed Carbon (by calculation)

ISO 15585 : Hard coal-Determination of Caking index

ISO19579 : Solid mineral fuels-Determination of sulfur by IR spectrometry

ASTM3302 : Standard Test Method for Total Moisture in Coal

ISO562 : Hard coal and coke-Determination of volatile matter

ISO1928 : Coal and coke — Determination of gross calorific value

***** THE END *****