

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: UC004639

Client Ref: **231115**

Project: Coal

Sample type

Status: Final

Received: 11/15/23

Started: 11/16/23

Reported: 1/2/24

Samples: 1

First Sample: MASHCC-231104-1

Last Sample: MASHCC-231104-1

Pages: 7

Result apply to sample as submitted.

Notes

Authorised by



On behalf of:

Ankhbayar Luvsansharav
Operations Director

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UC004639

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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
MASHCC-231104-1	7.44	5.04	2.53	20.13	21.20	21.75

- 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
MASHCC-231104-1	17.51	18.44	18.92	24.18	54.92	57.83

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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
MASHCC-231104-1	59.33	75.82	0.74	0.78	0.80	1.02

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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
MASHCC-231104-1	6179	6506	6675	8531	1	22

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ANALYTICAL REPORT

Scheme	ICP40B	GB/T 4633-2014	GB/T 3558-2014	XRF76V	CVA20A
Units	PPM	PPM	%	%	PPM
Detection Limit	3	20	0.003	0.01	0.004
Upper Limit	10,000	2,000	0.4	70	5.2
	As	F	Cl	P	Hg
MASHCC-231104-1	<3	192	0.170	0.11	<0.004

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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

GB/T 3558 : Determination of Chlorine in coal

ISO501 : Hard coal-Determination of the crucible swelling number

GB/T 4633 : Determination of Fluorine in coal

ISO 1213-2 : Fixed Carbon (by calculation)

ISO 15585 : Hard coal-Determination of Caking index

CVA20A : Mercury by AFS method

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

ICP40B : ICP-OES after DIG40B

ISO1928 : Coal and coke — Determination of gross calorific value

XRF76V : Meta/Tetraborate Fusion, XRF (0.7000gr)

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