

**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: UC004443

Client Ref: **230801**

Project: Coal

Sample type

Status: Final

Received: 8/1/23

Started: 8/1/23

Reported: 8/2/23

Samples: 1

First Sample: MASHCC\_230728\_1

Last Sample: MASHCC\_230728\_1

Pages: 6

Result apply to sample as submitted.

Notes

Authorised by



On behalf of:

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Operation Manager

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**SGS IMME Mongolia LLC**

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

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Project COAL  
Reported 02/08/23  
Status Final  
Page Page 2 of 6

**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
	Air Dry Loss	Moisture, Total	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
MASHCC_230728_1	3.53	5.42	1.95	21.41	22.20	22.64

- 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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 Page Page 3 of 6

**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_230728_1	15.52	16.09	16.41	21.21	57.66	59.77

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Page Page 4 of 6

**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_230728_1	60.96	78.79	0.68	0.71	0.72	0.94

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 Page Page 5 of 6

**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_230728_1	6267	6497	6626	8565	1.5	26

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*Page* Page 6 of 6

### 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 \*\*\*\*\*