

**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: UC004955

Client Ref: **ER-24005**

Project: Coal

Sample type

Status: Final

Received: 5/28/24

Started: 5/28/24

Reported: 5/29/24

Samples: 1

First Sample: Washed\_UHG\_HCC\_240524\_1

Last Sample: Washed\_UHG\_HCC\_240524\_1

Pages: 7

Result apply to sample as submitted.

Notes

Authorised by



On behalf of:

Ankhbayar Luvsansharav  
Operations Director

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[www.coal.sgs.com](http://www.coal.sgs.com)

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**\*UC004955\***

**SGS IMME Mongolia LLC**

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

Lab Ref UC004955  
Client Ref **ER-24005**  
Project COAL  
Reported 29/05/24  
Status Final  
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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
Washed_UHG_HCC_240524_1	1.81	1.05	0.77	10.52	10.63	10.72

- 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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*Project* COAL  
*Reported* 29/05/24  
*Status* Final  
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**ANALYTICAL REPORT**

<b>Scheme</b>	ISO562:2010	ISO562:2010	ISO562:2010	ISO562:2010	ISO 1213-2:2016	ISO 1213-2:2016
<b>Units</b>	AR %	AD %	DB %	DAF %	%	%
<b>Detection Limit</b>	0.1	0.1	0.1	0.1	0.01	0.01
<b>Upper Limit</b>	75	75	75	75	100	100
	VM_ARB	VM_ADB	VM_DB	VM_DAF	FC_ARB	FC_ADB
Washed_UHG_HCC_240524_1	22.81	23.05	23.23	26.01	64.86	65.55

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

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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
Washed_UHG_HCC_240524_1	66.06	73.99	0.69	0.70	0.70	0.78

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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	1
Upper Limit	10,000	10,000	10,000	10,000	9	110
	GCV_ARB	GCV_ADB	GCV_DB	GCV_DAF	CSN	G
Washed_UHG_HCC_240524_1	7507	7586	7645	8562	7.5	82

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**ANALYTICAL REPORT**

<b>Scheme</b>	AS 1038.21.1.2-2002
<b>Units</b>	G/CM3
<b>Detection Limit</b>	1
<b>Upper Limit</b>	3
	RD
Washed_UHG_HCC_240524_1	1.35

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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
- AS 1038.21 : Relative Density - Analysis sample/volumetric 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
- ISO1928 : Coal and coke — Determination of gross calorific value

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