



Joint certification by IMME SGS and IMME Mongolia

## СОРИЛТЫН ҮР ДҮНГИЙН ХУУДАС

**WHEN YOU NEED TO BE SURE**



Т.ФР  
MNS ISO/IEC 17025

Лаб. дугаар: UC004265-1  
Захиалгын дугаар: 230426  
Захиалагч: "Энержи ресурс" ХХК  
Дээжийн төрөл: Нүүрс  
Дээжийн жин: 3.85кг

Хүлээн авсан огноо: 04.26.2023  
Эхэлсэн огноо: 04.27.2023  
Тайлангийн огноо: 04.27.2023  
Дээжийн тоо: 1  
Хуудасны тоо: 1/1

Д/д	Дээжийн нэр	Сорилтын үзүүлэлт	Нийт чийг	Үлдэгдэл чийг	Үнслэг	Дэгдэмхий бодис	Нийт хүхэр	Нийт илчлэг чанар		Чөлөөт хөөлтийн зэрэг	Барьцалдах чанар
								Тэмдэглэгээ	ТМ <sup>arb</sup>		
		Стандарт арга аргачлал	ASTM D3302	ISO 11722	ISO 1171	ISO 562	ISO 19579	ISO 1928	ISO 501	ISO 15585	
		Нэгж	Жин, (%)								
1	HCC_230425_1		7.92	0.54	10.88	25.04	0.70	7056	7663	7.0	80
								Ккал/кг		Индекс	

### Тайлбар:

Сорилтын үр дүнг ASTM D3180 / ISO 1170 стандартын дагуу тооцоолсон.  
Дээжлэлтийн талаарх асуудлыг манай лаборатори хариуцахгүй.  
Энэхүү сорилтын үр дүн нь лабораторид хүлээн авсан тухайн дээжид хамаарах бөгөөд зөвхөн эх хувь нь хүчинтэй.  
ASTM D2013/2013M-18 стандартын дагуу нүүрсний дээж бэлтгэл хийгдсэн.

TM <sup>arb</sup>	Нийт чийг	VM <sup>claf</sup>	Дэгдэмхий бодисын гарц, хуурай үнсгүй төлөв	GSU <sup>db</sup>	Нийт илчлэг, хуурай төлөв
RM <sup>arb</sup>	Үлдэгдэл чийг	TS <sup>db</sup>	Нийт хүхэр, хуурай төлөв	FSI-	Чөлөөт хөөлтийн зэрэг
A <sup>db</sup>	Үнслэг, хуурай төлөв	GSU <sup>arb</sup>	Нийт илчлэг, чийгтэй төлөв	G-	Барьцалдах чанар

ХЯНАСАН:

3.БАТ-ЭНХ, НҮҮРСНИЙ ЛАБОРАТОРИЙН МЕНЕЖЕР

БАТАЛСАН:

Л.АНХБАЯР, ҮЙЛ АЖИЛЛАГААНЫ МЕНЕЖЕР

ЭНЭХҮУ СОРИЛТЫН ҮР ДҮНГИЙН ХУУДАС НЬ ЗӨВХӨН "ЭНЕРЖИ РЕСУРС" ХХК-ИЙН ЗАХИАЛГАТ АЖИЛД  
ХАМААРНА

SGS-IMME Mongolia LLC  
Uldveerlin barog 101, 20th khoroo, Bayangol district,  
Ulaanbaatar, Mongolia 17060  
t +976 7014 4415 f +976 7017 8598

Member of the SGS Group



Joint venture between SGS and IMME Mongolia

\*UC004265\*



**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:* UC004265  
*Client Ref:* **230426**  
*Project:* Coal  
*Sample type:*  
*Status:* Final  
*Received:* 4/26/23  
*Started:* 4/27/23  
*Reported:* 4/27/23  
  
*Samples:* 1  
*First Sample:* HCC\_230425\_1  
*Last Sample:* HCC\_230425\_1  
*Pages:* 6

Result apply to sample as submitted.

Notes

Authorised by

On behalf of:

Ankhbayar Luvsansharav  
Operation Manager

Email: luv.ankhbayar@sgs.com  
Website: www.sgs.com  
www.coal.sgs.com

SGS-IMME **Mongolia LLC** is accredited by **MASM** and conforms to the requirements of ISO/IEC 17025 the laboratory operations are accredited to ISO9001:2008. The sample was not drawn by the laboratory and this report is not used for L/C negotiation. The test report would be invalid without signatures of the persons for approval. The test report would be invalid if altered and test would be invalid if reproduced, except in full, without written approval of the Company. Different opinions about test report should be reported to us within 15 days from the date of receiving the test report. This document is issued by the Company under its General Conditions of Services accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issued defines therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS-IMME Mongolia LLC  
 Уилдверин тоирог 101, 20th khoroo, Bayangol district,  
 Ulaanbaatar, Mongolia 17060  
 t +976 7014 4415 f +976 7017 8599

Member of the SGS Group



Joint venture between SGS and IMME Mongolia

**\*UC004265\***

**SGS IMME Mongolia LLC**

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

Lab Ref UC004265  
Client Ref **230426**  
Project COAL  
Reported 27/04/23  
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
	Moisture, Total	Air Dry Loss	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
HCC_230425_1	7.92	7.42	0.54	10.02	10.82	10.88

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

Results are not intended for commercial settlement purposes.



Joint venture between SGS and IMME Mongolia

**\*UC004265\***

**SGS IMME Mongolia LLC**

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

Lab Ref UC004265  
Client Ref **230426**  
Project COAL  
Reported 27/04/23  
Status Final  
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
HCC_230425_1	20.55	22.20	22.32	25.04	61.51	66.44

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

Results are not intended for commercial settlement purposes.



Joint venture between SGS and IMME Mongolia

**\*UC004265\***

**SGS IMME Mongolia LLC**

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

Lab Ref UC004265  
Client Ref **230426**  
Project COAL  
Reported 27/04/23  
Status Final  
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
HCC_230425_1	66.80	74.96	0.65	0.70	0.70	0.79

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

Results are not intended for commercial settlement purposes.



Joint venture between SGS and IMME Mongolia

**\*UC004265\***

**SGS IMME Mongolia LLC**

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

Lab Ref UC004265  
Client Ref **230426**  
Project COAL  
Reported 27/04/23  
Status Final  
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
HCC_230425_1	7056	7622	7663	8599	7	80

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

Results are not intended for commercial settlement purposes.



Joint venture between SGS and IMME Mongolia

**\*UC004265\***

**SGS IMME Mongolia LLC**

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

*Lab Ref* UC004265  
*Client Ref* **230426**  
*Project* COAL  
*Reported* 27/04/23  
*Status* Final  
*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 \*\*\*\*\*