

Lab Reference No.:MNE221877TJ

SGS Report No.:MERTJ2210382-01A

TESTING REPORT

Eleven (11) Sub-lot samples were analyzed separately in accordance with ISO standards and size determination was conducted by using square-hole sieves as per principal's request at SGS Tianjin laboratory (certified by ISO/IEC 17025:2017 Registration NO. CNAS L2774). SAMPLING AND ANALYSIS BASED ON ISO STANDARDS (EXCEPT CSR AND CRI AS PER ASTM STANDARD METHODS). The following weighted average results were obtained for whole shipment.

SPECIFICATIONS	Actual Result	Method/Standard No.
MOISTURE IN PCT (AS RECEIVED BASIS)	7.3	ISO 579:2013(E)
ASH IN PCT (DRY BASIS)	12.7	ISO 1171:2010(E)
VOLATILE MATTER IN PCT (DRY BASIS)	0.7	ISO 562:2010(E)
SULPHUR IN PCT (DRY BASIS)	0.67	ISO 20336:2017(E)
PHOSPHOROUS IN PCT (DRY BASIS)	0.028	ISO 622:2016(E)
SIZE 25-100 MM IN PCT	95.2	ISO 728:2021(E)
SIZE BELOW 25 MM IN PCT	4.6	ISO 728:2021(E)
SIZE ABOVE 100 MM IN PCT	0.2	ISO 728:2021(E)

One composite sample was analyzed at SGS Tianjin laboratory.

CSR IN PCT	66.5	ASTM D5341/D5341M-19
CRI IN PCT	24.9	ASTM D5341/D5341M-19
M40 IN PCT	85.0	ISO 556:2020 (E)
M10 IN PCT	7.4	ISO 556:2020 (E)
ALKALI IN COKE IN PCT (DRY BASIS)	0.20	ISO 13605:2018 (E)

REMARK:

- As per principal's request, the bottom sample size of M40, M10 is above 60mm.

SGS-CSTC Standards Technical Services(TianJin) Co.,Ltd.

ISSUED BY SGS AT LOAD PORT

Gang Wang

Authorized Signature

2022-07-11

***** END*****



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Square holed sieve used.

Size Fraction		Fractional Mass %
-mm	+mm	
	30.00	3.8
30.00	10.00	92.8
10.00	0.00	3.4
Total		100.0

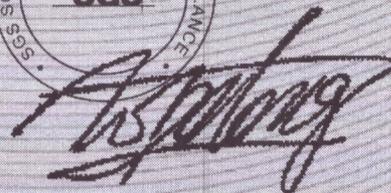
Chemical Analysis

Reported results are based on a calculated weighted average of 2 Sub-lot(s) analysis results using weights and qualities on the same moisture basis.

Test Items	Basis & Unit	Result			Method/Standard No.
		Lot 1	Lot 2	Weighted Average Value	
Total Moisture	ar, %	9.3	8.1	8.7	ISO 579:2013(E)
Ash	d, %	13.5	13.8	13.7	ISO 1171:2010(E)
Volatile Matter	d, %	1.0	1.5	1.3	ISO 562:2010(E)
Fixed Carbon	d, %	85.5	84.7	85.0	ISO 17246:2010(E)
Total Sulfur	d, %	0.88	0.91	0.90	ISO 19579:2006(E)
P ₂ O ₅ in Ash	d, %	0.533	0.547	0.540	ISO 13605:2018(E)
P in Coke(*)	d, %	0.032	0.033	0.033	Calculated

(*P in coke results are calculated from the P₂O₅ in Ash for client's reference purpose)

Prepared/Checked by Wayne Jang/ Kane Park For and behalf of SGS Korea Co, Ltd
 Signed and Dated Natural Resources
 At Seoul, Korea Minerals Commodities
 10 December 2021

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Size Fraction		Fractional Mass %
-mm	+mm	
	30.00	1.4
30.00	10.00	93.2
10.00	0.00	5.4
Total		100.0

Chemical Analysis:

Reported results are based on a calculated weighted average of 2 Sub-lot(s) analysis results using weights and qualities on the same moisture basis.

Test Items	Basis & Unit	Result			Method/Standard No.
		Lot 1	Lot 2	Weighted Average Value	
Total Moisture	ar, %	10.7	10.0	10.4	ISO 579:2013(E)
Ash	d, %	14.2	14.2	14.2	ISO 1171:2010(E)
Volatile Matter	d, %	1.3	1.2	1.2	ISO 562:2010(E)
Fixed Carbon	d, %	84.5	84.6	84.6	ISO 17246:2010(E)
Total Sulfur	d, %	0.86	0.80	0.83	ISO 19579:2006(E)
P ₂ O ₅ in Ash	d, %	0.506	0.507	0.507	ISO 13605:2018(E)
P in Coke(*)	d, %	0.031	0.031	0.031	Calculated

(*P in coke results are calculated from the P₂O₅ in Ash for client's reference purpose)

Prepared/Checked by David Shin/ Kane Park
Signed and Dated
At Seoul, Korea
25 October 2021

For and behalf of SGS Korea Co., Ltd.
Minerals Service



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