

REPORT OF ANALYSIS

Our reference number : BMN - 0309/II/2021
 Order number : 57010421000153
 Reported to : Mr. Gunawan
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Date of received : February 23, 2021
 Date of Analysis : February 23, 2021
 Date of completed : February 26, 2021
 Standard Method : ASTM

SAMPLE CODE	SAMPLE WEIGHT kgs	TOP SIZE mm	TM %	M %	ASH %			VM %				FC %				TS %				GCV Kcal/Kg				HGI
					ar	adb	db	ar	adb	db	dafb	ar	adb	db	dafb	ar	adb	db	dafb	ar	adb	db	dafb	
PT-SM-OC/01	8.41	+75	34.98	17.76	2.32	2.93	3.56	31.08	39.31	47.80	49.56	31.62	40.00	48.64	50.44	0.17	0.21	0.26	0.26	4219	5336	6488	6728	40
PT-SM-OC/02	8.93	+75	34.40	20.43	2.44	2.96	3.72	30.21	36.64	46.05	47.83	32.95	39.97	50.23	52.17	0.27	0.33	0.41	0.43	4262	5170	6497	6748	36

Ultimate Analysis Parameter	PT-SM-OC/01				PT-SM-OC/02			
	ar	adb	db	dafb	ar	adb	db	dafb
Total moisture, %	34.98	-	-	-	34.40	-	-	-
Moisture in analysis, %	-	17.76	-	-	-	20.43	-	-
Ash content, %	2.32	2.93	3.56	-	2.44	2.96	3.72	-
Carbon, %	44.9	56.8	69.1	71.6	45.3	54.9	69.0	71.7
Hydrogen, % *)	2.96	3.75	4.56	4.73	2.91	3.53	4.44	4.61
Nitrogen, %	0.85	1.07	1.30	1.35	0.82	1.00	1.26	1.31
Sulphur, %	0.17	0.21	0.26	0.26	0.27	0.33	0.41	0.43
Oxygen, % *)	13.82	17.48	21.22	22.06	13.86	16.85	21.17	21.95

Slagging Index	Fouling Index
1.80	0.97
1.79	0.70

*) Excluding Water Constituent in Coal Samples

SAMPLES CODE	ASH FUSION TEMPERATURE (°C *)							
	REDUCING ATMOSPHERE				OXIDICING ATMOSPHERE			
	IDT	ST	HT	FT	IDT	ST	HT	FT
PT-SM-OC/01	1280	1290	1300	1310	1310	1380	1420	1490
PT-SM-OC/02	1340	1360	1380	1420	1360	1390	1420	1500

SAMPLES CODE	Ash Analysis (dry coal ash)											
	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	MnO ₂ %	TiO ₂ %	P ₂ O ₅ %	SO ₃ %	ud %
PT-SM-OC/01	5.90	4.10	42.79	21.80	6.36	0.14	0.14	0.95	0.27	0.19	17.30	0.06
PT-SM-OC/02	5.63	7.50	14.33	30.47	13.39	0.16	0.19	0.31	0.28	0.21	27.38	0.15

Parameter	Standard	Parameter	Standard
Total moisture	ASTM D3302/D3302M-19	Carbon, Hydrogen and Nitrogen	ASTM D5373-16
Moisture in the analysis sample	ASTM D3173/D3173M-17a	Oxygen	ASTM D3176-15
Ash content	ASTM D3174-12 (2018)	Ash Fusion Temperature	ASTM D1857/D1857M-18
Volatile matter	ASTM D3175-20	Major & Minor elements in coal ash	ASTM D 3682-2013
Fixed carbon	ASTM D3172-13	Phosphorous	ISO 622:2016
Total sulphur	ASTM D4239-18e1	Sulfur Trioxide in coal ash	ASTM D 5016-16
Gross Calorific value	ASTM D5865-19	Mangan dioksida	IKBJM-A/004
Calculating by Different basis	ASTM D3180-15	Hardgrove Grindability Index	ASTM D409/D409M-16
Chlorine	ASTM D4208-18		
Fluorine	ASTM 597-96 (2015)		
Mercury	ASTM D6414-14		
Net Calorific Value	ASTM D5865-19		

This test result (s) related to the samples (s) submitted only and the report / certificate cannot be reproduced in any way, except in full context and with the prior approval in writing from Sucofindo Laboratory

Note : UNSEALED @1 POLYPROPYLENE BAG , SAMPLE SUPPLIED BY CUSTOMER

Date : February 27, 2021

Reported by
mcl/acm/sl

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