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Job File No.: 181202/178224-2704/M-NK-2021

Перечень услуг

ANALYTICAL REPORT

Аналитический отчет

SCOPE OF SERVICES : Analysis of sample of coal grade «ТМСШ» taken at AO "OF

Mezhdurechenskaya", Kemerovo region, Russia (as declared)

Анализ пробы угля марки «ТМСШ», отобранной на АО "ОФ Междуреченская", Кемеровская

область, Россия (как заявлено)

AT : SGS Laboratory

В лаборатории SGS

THIS IS TO REPORT that in accordance with instructions received from our Principal, **AO "OF Mezhdurechenskaya"**, we have performed analysis of the sample № 2704 dd. 27.04.2021 given to us by our Principal on 27.04.2021. The sample, total weighting 82.4 kg, was packed in a polyethylene bags, not sealed, external damages on the sides of bags weren't detected. The sample was numbered with SGS lab number NK18-064598. The sample was supplied with labels.

Настоящим удостоверяется, что в соответствии с инструкциями, полученными от нашего Заказчика, АО "ОФ Междуреченская", нами был проведен анализ пробы № 2704 от 27.04.2021г., предоставленной нам Заказчиком 27.04.2018. Проба, общим весом 82.4 кг, была упакована в полиэтиленовые мешки, не опломбирована, внешних повреждений на поверхности мешков не было обнаружено. Пробе присвоен лабораторный номер SGS NK18-064598. Проба снабжена этикетками.

ANALYSESWEREPERFORMEDINSGSLABORATORY.

Анализы были проведены в лаборатории SGS:

ANALYSES: Analysis of sample № 2704 was performed in SGS laboratory with results as follows:

Анализы: Анализ пробы № 2704 был проведен в лаборатории SGS. Результаты анализа следующие:

Basis reported Базовое состояние	Moisture % Массовая доля влаги, % ГОСТ Р 52911-2013	Ash %	Yield of volatile matter % Выход летучих веществ, % ГОСТ Р 55660-2013		Gross calorific value, kcal/kg Высшая теплота сгорания, ккал/кг ГОСТ 147-2013 (ISO 1928:2009)
As Received Paбoчee	7.0	17.4	10.1	0.37	6373
Air Dry Basis Аналитическое	1.2	18.5	10.7	0.39	6770
Dry Basis Cyxoe	CONSTRUCTION OF THE STREET OF	18.7	10.8	0.39	6852
Dry Ash Free Сухое беззольное	Ages General Section Control of C	regas is a secondary and a sec	13.3	TO THE STATE OF TH	8429

Net Calorific Value (as received) was calculated in accordance with FOCT 147-2013 (ISO 1928:2009): 6171 kcal/kg

Низшая теплота сгорания (рабочее состояние) рассчитана в соответствии с ГОСТ 147-2013 (ISO 1928:2009)



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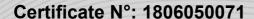
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Screen test was performed in accordance with ISO 1953 with results as follows.

Ситовый анализ был проведен в соответствии с ISO 1953. Результаты анализа спедующие

Nominal Top Size (mm)	+25	13-25	6-13	3-6	1-3	0.5-1	0-0.5
Yield (%)	0.0	9.2	25.2	19.9	22.4	8.4	14.9

Determination of characteristics of plastic layer was performed with results as follows:

Показатели пластометрических характеристик. Результаты анализа следующие:

Attribute Показатели	Unit Единица измерения	Value Величина	Test method Метод испытания
050505 55050 X 0505050505050505050505050	mm	12	ГОСТ 1186-2014
1966 F050 S05050505050505050505050505050505050	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	less than 6 (менее 6)	1001 1100-2014

Ultimate analysis with results as follows:

Определение элементного состава органической массы угля. Результаты анализа следующие

Account of Sections Control of Sections Contro		SOC NO. 185 SOS SC. 185 SOSO SC. 185 SOSO				
Element Элемент	Unit ед. измерения	As Reseive d Paбочее	Air Dry Basis Воздушно- Сухое	Dry Basi s Cyxoe	Dry Ash Free basis Сухое беззольное	Test methods Методы испытаний
Carbon Массовая доля углерода	%	68.82	72.41	73.29	90.74	FOCT 32979-2014 (ISO 29541:2010)
Hydrogen Массовая доля водорода	%	3.09	3.26	3.30	4.08	ΓΟCT 32979-2014 (ISO 29541:2010)
Nitrogen Массовая доля азота	%	1.58	1.66	1.68	2.08	ΓΟCT 32979-2014 (ISO 29541:2010)
Oxygen (by difference) Массовая доля кислорода (по разнице)	%	1.98	2.08	2.11	2.61	ГОСТ 2408.3-95 (ИСО 1994-76)



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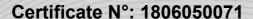
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Determination of chemical composition of ash with results as follows:

Определение

кимического состава		нализа следующие:	35
Compounds Компоненты	Unit ед. измерения	Percentage Содержание	Test methods Методы испытаний
Silicon oxide Оксид кремния	%	56.69	A Land September 1
Aluminum oxide Оксид алюминия	%	24.64	1505. 1505. 1506.
Iron oxide Оксид железа	%	9.60	1050. 1050.5050.505.205.005.005.005.005.005.005
Titanium oxide Оксид титана	%	0.96	ACTM D2022 42
Calcium oxide Оксид кальция	%	1.37	ASTM D3682-13
Magnesium oxide Оксид магния	%	0.97	100 mm m
Potassium oxide Оксид калия	%	2.25	
Sodium oxide Оксид натрия	%	0.72	
Sulfur oxide Оксид серы	%	1.35	ASTM D5016-16
Phosphorus oxide Оксид фосфора	%	0.060	FOCT 10538-87
Manganese oxide Оксид марганца	%	0.210	ASTM D3683-11
Barium oxide Оксид бария	%	0.020	ASTM D6357-11
Undetermined Неопределенные	%	1.156	-



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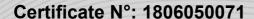
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Determination of elements content with results as follows:

Определение содержания элементов. Результаты анализа следующие

49. 406	Linis	Percentage Содержание			
Element Элемент	ед. измерения	As Reseived Paбoчee	Air Dry Basis Воздушно- Сухое	Dry Basis Cyxoe	Test methods Методы испытаний
Fluorine Массовая доля фтора	ppm	127	133	135	ASTM D3761-10
Chlorine Массовая доля хлора	ppm	<220	<220	<220	ASTM D4208-13
Arsenic Массовая доля мышьяка	ppm	2.52	2.65	2.68	ASTM D6357-11
Phosphorus Массовая доля фосфора	%	0.005	0.005	0.005	ГОСТ 1932-93 (ИСО 622- 81)
Sodium Массовая доля натрия	%	0.097	0.102	0.103	ASTM D3682-13
Potassium Массовая доля калия	%	0.337	0.355	0.359	ASTM D3682-13

Determination of **free swelling Index** was performed with results as follows:

Определение индекса свободного вспучивания. Результаты анализа следующие:

Attribute Показатель	Unit Единица измерения	Value Величина	Test method Метод испытания
FSI	-	1/2	ГОСТ 20330-91 (ИСО 501-81)

Determination of **Hardgrove Index** was performed with results as follows:

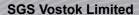
Определение коэффициента размолоспособности по Хардгрову. Результаты анализа следующие:

Attribute	Unit Единица измерения	Value	Test method
Показатель		Величина	Метод испытания
HGI	sGibausgsasasasasasas saiasusasasasasasasas saiasusasasasas	65	ГОСТ 15489.2-93 (ИСО 5074-80)

Determination of **actual density** was performed with results as follows:

Определение действительной плотности. Результаты анализа следующие

Attribute	Unit Единица измерения	Value	Test method
Показатель		Величина	Метод испытания
d _r d	g/cm ³	1.52	ГОСТ 2160-2015



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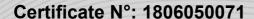
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Determination of apparent density was performed with results as follows:

Определение кажущейся плотности. Результаты анализа следующие

Attribute	Unit Единица измерения	Value	Test method
Показатель		Величина	Метод испытания
da	g/cm ³	1.51	ГОСТ 2160-2015

Determination of **moisture-holding capacity** was performed with results as follows:

Определение максимальной влагоемкости. Результаты анализа следующие:

Attribute	Unit Единица измерения	Value	Test method
Показатель		Величина	Метод испытания
W ^{max}	SOBGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSG	2.63	FOCT 8858-93 (MCO 1018-75)

Gross calorific value on moist, ash-free basis (calculated parameter). Results as follows:

Высшая теплота сгорания влажного беззольного топлива. Результаты анализа следующие

Attribute	Unit Единица измерения	Value	Test method
Показатель		Величина	Метод испытания
Q ^{af} s,v	kcal/kg	8209	FOCT 27313-2015

Determination of ash fusibility with results as follows:

Определение плавкости золы. Результаты анализа следующие:

Attribute	Unit	Value / atm Величина / a		Test method
Показатель	ед. измерения	Oxidizing окислительная	Reducing восстановительная	Метод испытания
Deformation temperature Температура деформации	°C	1440	1330	
Sphere temperature Температура сферы	°C	1460	1370	FOCT 22079 2014
Hemispherical temperature Температура полусферы	°C	1470	1410	FOCT 32978-2014 (ISO 540:2008)
Flow temperature Температура растекания	°C	1490	1460	



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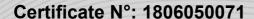
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Determination of **sulfur forms** with the following results:

Определение форм серы. Результаты анализа следующие

ess dist	Unit		Percentage Содержание		
Compounds Компоненты	ед. измерения	As Reseived Paбoчee	Air Dry Basis Воздушно- Сухое	Dry Basis Cyxoe	Test method Метод испытания
Sulphate sulphur Массовая доля сульфатной серы	%	0.01	0.01	0.01	
Pyrite sulphur Массовая доля пиритной серы	%	0.04	0.04	0.04	FOCT 30404-2013 (ISO
Organic sulphur (by difference) Массовая доля органической серы (по разности)	%	0.32	0.34	0.34	157:1996) (кроме п. 9.2.1

Determination of trace elements content in coal with results as follows:

Elements Элементы	Unit ед. измерения	Percentage Содержание Dry Basis Сухое	Unit ед. измерения	Percentage Содержание Dry Basis Сухое	Test methods Методы испытания
Ga (Галлий)	%	0.0007	г/т	7	ΓΟCT 12711-77
Ge (Германий)	%	0.00009	г/т	0.9	ΓΟCT 10175-75
Нд (Ртуть)	%	0.000004	ppm	0.04	ΓΟCT 32980-2014 (ISO 15237:2003)
Мп (Марганец)	%	0.0269	ppm	269	ASTM D3683-11
Ni (Никель)	%	0.000168	ppm	1.68	ASTM D6357-11
Se (Селен)	%	0.000022	ppm	0.22	ASTM D6357-11



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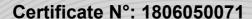
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Determination of **petrographic composition and metamorphism** was performed with results as follows: Определение петрографических показателей и стадии метаморфизма. Результаты анализа следующие:

Reflectance indices R0:

Attribute Показатель	Symbol Обозначение	Unit Единица измерения	Value Величина	Test method Метод испытания
Random reflectance Произвольный показатель отражения витринита	Ro average	%	2.17	Color
Minimum random reflectance Минимальный произвольный показатель отражения витринита	Ro _{min}	%	1.80	
Maximum random reflectance Максимальный произвольный показатель отражения витринита	Ro _{max}	%	2.50	ГОСТ Р 55659-2013 (ИСО 7404-5:2009)
Standard deviation Стандартное отклонение	SGSGSGSGS O R	-	0.13	
Rank of coal Стадия метаморфизма	930505 9 930505 9 98050 7 8 8050 7	-	'5	
Number of gaps Количество разрывов	ASSO DE PROPERTO	-	0	

Determination of maceral components was performed with results as follows:

Определение мацерального состава. Результаты анализа следующие:

Attribute Показатель	Symbol Обозначение	Unit Единица измерения	Value Величина	Test method Метод испытания
Exinite Липтинит	Т	%	0	
Vitrinite Витринит	Vt	%	53	*
Semivitrinite Семивитринит	SV	%	0	
Inertenite Инертинит	Total State of the	%	47	ГОСТ Р 55662-2013
Total inerts Содержание отощающих компонентов	ΣΟΚ	%	47	
Organic mass Органическая масса	ОМ	%	93	
Mineral Matter Минеральные включения	MM	%	7	



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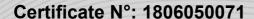
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Determination of mineral components was performed with results as follows:

Определение минеральных включений. Результаты анализа следующие

Attribute Показатель	Symbol Обозначение	Unit Единица измерения	Value Величина	Test method Метод испытания
Clay Глина	Mgl	%	7	
Sulfides Сульфиды	Ms	%	0	AND AREA
Carbonates Карбонаты	Mk	%	ACCOUNTS OF THE PROPERTY OF TH	ГОСТ Р 55662-2013
Quartz Кварц	Mkr	%	50505155051505155555555555555555555555	
Other Прочие	Mpr	%	0 0555555	

Determination of vitrinite reflectance was performed with results as follows:

Определение показателя отражения витринита. Результаты анализа следующие

Reflect		Frequency Частота	Test method Метод испытания
1.80	1.84	2	
1.85	1.89	2	
1.90	1.94	2	
1.95	1.99	6	
2.00	2.04	6	
2.05	2.09	9	
2.10	2.14	13	ГОСТ Р 55659-2013
2.15	2.19	16	(MCO 7404-5:2009)
2.20	2.24	18	
2.25	2.29	11	N. N.
2.30	2.34	8	
2.35	2.39	3	
2.40	2.44	2	
2.45	2.49	2	



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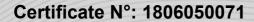
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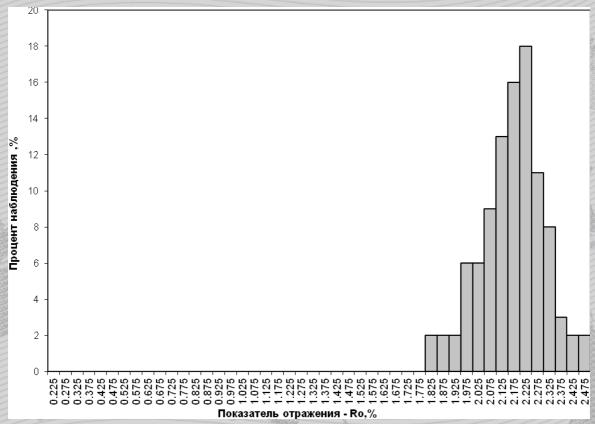
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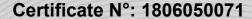
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II. ANALYSES WERE PERFORMED IN SUBCONTRACTED LABORATORY:

Анализы были проведены в субконтрактной лаборатории:

The sample was sent to subcontracted laboratory OAO "Zapadno-Sibirski Ispytatelny Centr" (Accreditation Certificate No. RA.RU.21A907 dd. 17.02.2015) for analysis.

Образец был отправлен в субконтрактную лабораторию ОАО́ "Западно-Сибирский испытательный центр" (аттестат аккредитации № RA.RU.21AЯ07 от 17.02.2015) для анализа.

Analytical results determined by OAO "Zapadno-Sibirski Ispytatelny Centr" are as follows:

Аналитические результаты, полученные в ОАО "Западно-Сибирский испытательный центр" следующие:

Determination of elements spectroscopy content.

Определение элементного спектрального анализа:

Element Элемент	Unit Единица измерения	Content Содержание	Test method and No. ND Метод испытания и номер НД
Ва (Барий)	%	0.05	15050 5005 500 500 500 500 500 500 500 5
Ве (Берилий)	%	0.0002	\$65955.60555655555555 \$655555555555555555555555
В (Бор)	%	0.001	7,000,000
Ві (Висмут)	%	< 0.0002	South State
V (Ванадий)	%	< 0.001	Secretary and the secretary an
W (Вольфрам)	%	<0.002	
Ga (Галлий)	%	<0.0001	
Ge (Германий)	%	<0.0002	X
Yb (Иттербий)	%	0.0002	
Ү (Иттрий)	%	0.001	
Nb (Ниобий)	%	<0.001	
Sn (Олово)	%	<0.0002	
Zn (Цинк)	%	0.003	
Cd (Кадмий)	%	<0.001	Приближенно-количественный
Со (Кобальт)	%	0.0002	спектральный анализ
Li (Литий)	%	<0.001	
La (Лантан)	%	0.002	CTΠ №10-17-88
Мп (Марганец)	%	0.03	
Си (Медь)	%	0.0004	1000
Мо (Молибден)	%	<0.0001	
As (Мышьяк)	%	<0.01	
Ni (Никель)	%	0.0004	
Zr (Цирконий)	%	0.02	
Рb (Свинец)	%	<0.0002	
Ад (Серебро)	%	<0.00001	
Sc (Скандий)	%	<0.0002	
Sr (Стронций)	%	<0.01	
Sb (Сурьма)	%	<0.002	
Та (Тантал)	%	<0.01	
Ті (Титан)	%	0.15	

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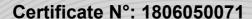
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Р (Фосфор)	%	<0.1
Сг (Хром)	%	<0.001
TI (Таллий)	%	<0.001

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Signed and dated in Novokuznetsk / ES 01 June 2021

For and on behalf of SGS Vostok Limited



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