



**INCOLAB SERVICES RUSSIA S.C.**  
**COMMODITY SAMPLERS AND ANALYTICAL CHEMISTS**

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**TO WHOM IT MAY CONCERN**

We have examined the sample(s) of  
and report the following to be the result:

Date : 27 May 2020  
Our ref. : 2005471RUS Ro  
Material : ANTHRACITE COAL IN BULK  
Ex. : m/v "ODESSA 1"  
Lot : AVERAGE  
Weight : 3'034.582 mt  
Port : ROSTOV-ON-DON, RUSSIA  
Sampling date : 22-25 May 2020

**Certificate of Sampling and Analysis**

We, the undersigned Incolab Services R.S.C., confirm to have attended the loading and sampling the material of anthracite, which was loaded on board of the vessel "ODESSA 1" on 22-25 May 2020 at the port of Rostov.

**SAMPLING**

Sampling of anthracite was carried out during all loading in accordance with I.S.O. Standards.

**ANALYSIS**

TOTAL MOISTURE	<i>unidade</i>	:	6.4 %	ISO 589
ASH IN DRY	<i>analis</i>	:	7.1 %	ISO 1171
ASH AS RECEIVED		:	6.6 %	
VOLATILE MATTER IN DRY	<i>volatil</i>	:	3.4 %	ISO 562
VOLATILE MATTER AS RECEIVED		:	3.2 %	
SULPHUR IN DRY	<i>sulf</i>	:	1.17 %	ISO 19579
SULPHUR AS RECEIVED		:	1.09 %	
FIXED CARBON IN DRY	<i>carbony</i>	:	89.5 %	ISO 29541
FIXED CARBON AS RECEIVED		:	83.8 %	

**SIZING TEST**

80	+	80	mm	:	14.8 %
	-	25	mm	:	71.3 %
	-	25	mm	:	13.9 %
					100.0 %

Sizing test revealed stones - 2.5 % in the mass of anthracite.  
Sizing test was carried out using square mesh sieves in accordance with ISO 1953.

For and on behalf of,  
Incolab Services R.S.C.

