



**Certificate N°: 1808280271**

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**SAMPLING AND ANALYSIS REPORT**

**Client** : BRADFIELD s.r.o. Czech Republic  
**Order No.** : 200474 (PO 106716-5)  
**Declared commodity** : COAL  
**Declared granulation** : 0-50 mm  
**Declared weight** : 1 648,40 mt (25 wagons)  
**Date and place of inspection** : 07, 14.08.2018 r Terminal CL Małaszewicze/Poland  
**No reference SGS** : 45/2002188-2

"Inspection body accredited by the Polish Center for Accreditation, No. AK 013".

THIS IS TO REPORT that upon the request of Messrs SGS Czech Republic, s.r.o., (SGS Czech Republic was nominated by their Client BRADFIELD s.r.o. Czech Republic ) we performed Sampling and Analysis of a/m cargo, according to the relevant standards and internal procedures of the SGS including the internal procedure PQ10 "Process of contract execution, Customer orders"

Sampling and samples preparation was performed as per PN-ISO 18283:2008 standard "Coal and coke - Manual sampling" and instruction SGS IS-MIN-09 "Inspection of the quality of coal and coke". dd 31.07.2015

Samples for analysis were drawn during unloading from the below mentioned wagons on 2018-08-07, 14

The primary samples of coal were collected manually successively during the unloading operation of wagons, in the area of Terminal CL Małaszewicze. The general sample was mixed, ground, reduced, and then divided into 3 laboratory samples.

**Samples Distribution:**

sample no 1/3 about 5 kg - intended for analysis in the laboratory SGS ( secured : seal no: 102754)

samples no 2/3 and 3/3 about 5 kg – storage of samples to client's disposal for 3 months since inspection. ( secured : seal no: 102755 and 102756 )

**Numbers of Railcars:**

55182760, 61450102, 60598935, 61535829, 61529475  
61001509, 61708152, 60755600, 62268768, 62040514  
59076869, 62162003, 61646170, 61478236, 62151535  
61876769, 61870309, 60641776, 62304068, 60401122  
62272539, 60869708, 61242616, 61535563, 61020657

**Results of Analysis**

| Parameters            |         | Result (r) | Result (db) | Result (daf) | Standard / Method    |
|-----------------------|---------|------------|-------------|--------------|----------------------|
| Total moisture        | %       | 7,0        | ---         | ---          | PN-ISO 589:06 met A1 |
| Ash                   | %       | 16,0       | 17,2        | ---          | PN-ISO 1171:02       |
| Volatile matters      | %       | 26,1       | 28,1        | 33,9         | ISO 562:2010         |
| Total sulphur         | %       | 0,35       | 0,38        | 0,46         | ISO 19579:2006       |
| Gross calorific value | kJ/kg   | 25746      | 27683       | 33439        | PN-ISO 1928:02       |
|                       | kcal/kg | 6149       | 6612        | 7987         |                      |
| Net calorific value   | kJ/kg   | 24785      | 26824       | ---          | PN-ISO 1928:02       |
|                       | kcal/kg | 5920       | 6407        | ---          |                      |

\* Remarks :

**SGS Polska Sp. z o.o.**

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On the surface of the goods in the wagons , the presence of impurities in the form of a stone was noticed . Stone was visible only on top of wagons before discharge operations.

Analyses were carried out at SGS Laboratory in Pszczyna. The laboratory is accredited and has the certificate of accreditation of Polish Centre for Accreditation No.: AB 313

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**SIGNED AND STAMPED IN MAŁASZEWICZ FOR AND ON BEHALF OF**  
20<sup>th</sup> of August 2018 **SGS POLSKA Sp. z o.o.**



This Certificate cancels and supersedes the Certificate No. 180820066A dated 2018-08-20 issued by SGS POLAND SP.Z O.O.

**SGS**

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