

CENTRAL LABORATORY FOR CHEMICAL ANALYSIS

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***TESTING THE PROPERTIES OF COAL AND COKE***

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| ***No.*** | ***TYPE OF TEST / PROPERTY*** | ***Units*** | ***TEST METHOD*** |
| **1.** | **Preparation of sample for analysis \*** | - | ASTM D 2013 (coal)  ASTM D 346 (coke) |
| **2.** | **Total moisture content \*** | mass.% | ASTM D3302 (coal)  ISO 579 (coke) |
| **3.** | **Air dry loss moisture \*** | mass.% | ASTM D3302 |
| **4.** | **Moisture in analysis sample \*** | mass.% | ASTM D3173 |
| **5.** | **Ash content \*** | mass.% | ISO 1171 |
| **6.** | **Fusibility of ash** | °C | ASTM D1857 |
| **7.** | **Ash composition** | mass.% | ASTM D4326 |
| **8.** | **Volatile matter content \*** | mass.% | ISO 562 |
| **9.** | **Loss on ignition (LOI)** | mass.% | ASTM D7348 |
| **10.** | **Fixed carbon content, C-fix** | mass.% | Calculated |
| **11.** | **Total sulfur content (S) \*** | mass.% | ASTM D4239-18e1 |
| **12.** | **Carbon (C), hydrogen (H) and nitrogen (N) content \*** | mass.% | ASTM D 5373 |
| **13.** | **Oxygen content \*** | mass.% | Calculated  ISO 1170 |
| **14.** | **Proximate analysis by TGA \***  **(moisture in analysis sample, volatile matter, ash)** | mass.% | ASTM D7582 |
| **15.** | **Calorific value \*** | MJ/kg | ISO 1928 |
| **16.** | **Total mercury content (Hg)** | mass.% | ASTM D6722 |
| **17.** | **Emission factor \*** | tCO2/TJ | EU Directive No 2018/2066 |
| **18.** | **Determination of barbecue charcoal properties** | mass.% | HRN EN 1860-2 |

NOTE: **\*** accredited methods according to HRN EN ISO / IEC 17025