



Chemical Analysis XRF

According to: ASTM E1621-13

Result of XRF

Oxide	Weight %	Oxide	Weight %	Oxide	Weight %	Oxide	Weight %
Na ₂ O	0.6	MgO	1.5	Al ₂ O ₃	9.8	SiO ₂	29.0
P ₂ O ₅	0.37	SO ₃	9.4	Cl	0.16	K ₂ O	1.5
CaO	28.4	TiO ₂	0.65	Fe ₂ O ₃	6.2	NiO	0.50
ZnO	0.77	LOI	11.15	-	-	-	-

Notes

- The analyzing was done after burning the sample at 600 °C
- The analysis depends on sampling and uniformity of sample.
- The result is semi-Quantitative.
- Because of LOI determination, the test sample was kept at 950C for 1.5 hour.



Chemical Analysis XRD

According to: BS EN 13925-1: 2008

Current: 30mA

Voltage: 40kV

Anode: Cu

2Θ : 4-70 °C

Step size: 0.05

Counting time: 0.5 sec

Result of chemical compound, XRD:

1. Amorphous Phase
2. Calcite CaCO_3
3. Anhydrite CaSO_4
4. Dolomite $\text{CaMg}(\text{CO}_3)_2$
5. Carbon Phase C
6. Quartz SiO_2

Notes

- The analyzing was done after burning the sample at 600°C
- XRD graph is attached.
- The analysis depends on sampling and uniformity of sample.



Coal & Graphite Analysis

Results

- Result of chemical analysis test

Test Name	Test Reference Standard	Test Result (%)
C (fixed C) *	ASTM D 3172-13	28.0
Ash	ASTM D3174-18	10.7
Volatile Matter	INSO 11098-1390	61.3
Moisture	ASTM D 3173-17	1.3

Note

- The test report depends on sampling and uniformity of sample.
- These tests were done on dry sample.