Environment, soil, geology, marine science

Organic chemistry, pharmacy

Food analysis & security

Petrol chemistry, coal, energy

Quality control

Carbon, Nitrogen and Hydrogen in coal

Instrument: ECS 8020
Mode: CHNS
Pretreatments: none

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NC TECHNOLOGIES
Innovative Elemental µ-Analysis

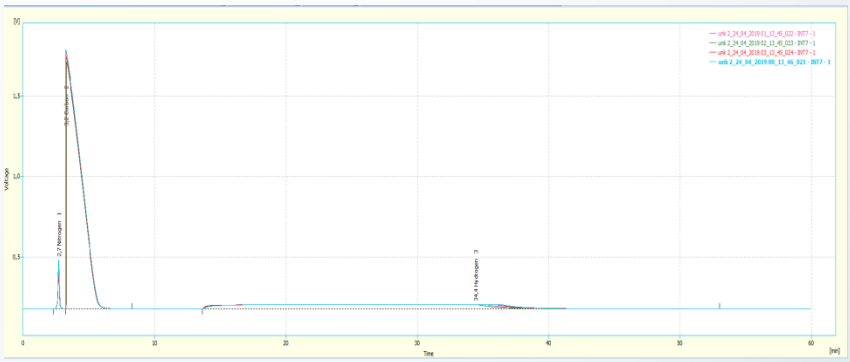
Carbon, Nitrogen and Hydrogen in coal

The chemical and physical characterization of coals is important for evaluating their use as fuels for the production of electricity.
Based on their degree of aging, the coals have different percentages of Carbon and are classified in:
- peat (C from 55 to 65%)
- lignite (C from 65 to 75%)
- bituminous carbon (C from 75 to 90%)
- anthracites (C> 90%)

The characterization of coal occurs mainly through different analytical methods like thermal analysis, ashes analysis and elemental analysis.
ECS8020 can perform reliable analyses in a very short time; research and applications let us to optimize the instrument and the consumables for the perfect coal combustion and conversion to detectable gases.

Parameter	Carbon	Nitrogen	Hydrogen
Average	55.96	1.35	4.62
Standard deviation	0.90	0.02	0.07
Average accuracy	1.60	1.64	1.45

All reported values unit: %



- ✓ Configuration: CHNS
- ✓ Furnaces: no. 2
- ✓ Sampler: Pneumatic
- ✓ Chemical standard: Acetanilide

To send your samples for free demonstration analyses:
info@nctechnologies.it

For analytical and technical questions:
customerservice@nctechnologies.it

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