

Scope of Accreditation

Accredited body: U. S. Steel Košice, s.r.o.
Vstupný areál U. S. Steel, 044 54 Košice

Organizational unit performing the activity of the accredited body:
Department of Cokery Laboratory

Place of performance of the accredited body:
Vstupný areál U. S. Steel, 044 54 Košice

Identification number of the accredited body: 027/S-024

Laboratory with fixed scope

Item	Subject of test		Applied method		The other specifications
	Subject	Property/ Parameter	Kind/Type	Indication	
1.	Solid fuels: - coal	Total water	gravimetry	STN 44 1377 ISO 589 (PPL/AG/0036)	
		Analytical water		PPL/AG/0038 (ASTM D 7582) (manual Leco)	
	Solid fuels: - coke	Total water		STN 44 1377 (PPL/AG/0036)	
		Analytical water		STN ISO 579 (PPL/AG/0037)	
	Solid fuels: - coke	Total water		PPL/AG/0038 (ASTM D 7582) (manual Leco)	
		Analytical water		STN 44 1384-2 (PPL/AG/0037)	
2.	Solid fuels: - coal	Ash	PPL/AG/0038 (ASTM D 7582) (STN ISO 1171) (manual Leco)		
			STN ISO 1171 (PPL/AG/0039)		
	Solid fuels: - coke	Ash	PPL/AG/0038 (ASTM D 7582) (STN ISO 1171) (manual Leco)		
			STN ISO 1171 (PPL/AG/0039)		
3.	Solid fuels: - coal	Volatile matter	STN ISO 562 (PPL/AG/0040)		
	Solid fuels: - coke	Volatile matter			
4.	Solid fuels: - coal - coke	Carbon	IR absorbance after the burn	PPL/AG/0041 (ASTM D 5373) (manual Leco)	
		Hydrogen	IR absorbance after the burn		
		Nitrogen	TCD detection after the burn		
5.	Solid fuels: - coal - coke	Sulfur	IR absorbance after the burn	PPL/AG/0042 (ASTM D 4239) (manual Leco)	
6.	Gross heating value		calorimetry	ČSN ISO 1928 (PPL/AG/0043)	
	Net calorific value		calculation		

Item	Subject of test		Applied method		The other specifications
	Subject	Property/ Parameter	Kind/Type	Indication	
7.	Gases	Methane (CH ₄)	GC-TCD GC-FID	PPL/AG/0044 (ASTM D 1946)	
		Hydrogen (H ₂)	GC-TCD		
		Oxygen (O ₂)	GC-TCD		
		Nitrogen (N ₂)	GC-TCD		
		Carbon dioxide (CO ₂)	GC-TCD		
		Carbon monoxide (CO)	GC-TCD		
		Ethen (C ₂ H ₄)	GC-FID		
		Ethane (C ₂ H ₆)	GC-FID		
		Acetylene (C ₂ H ₂)	GC-FID		
8.	Waste water Underground water Surface water	Chlorides	IC/ Electro- chemical detector IC/UV VIS	STN EN ISO 10304-1 (PPL/AG/0045)	
		Fluorides			
		Nitrates			
		Nitrites			
		Phosphates			
		Sulphates			
		Nitrates nitrogen	IC/ Electro- chemical detector IC/UV VIS and calculation		
		Nitrites nitrogen			
		Phosphates phosphorus			
9.		Ammonium	spectrophotometry	Working Procedure Hach (STN ISO 7150-1) (PPL/AG/0046)	cuvette tests LCK 304
		Ammonium nitrogen			cuvette tests LCK 304
10.		pH	potentiometry	STN EN ISO 10523 (PPL/AG/0047)	
11.		Conductivity	conductometry	STN EN 27888 (PPL/AG/0048)	
12.	Waste water	Total cyanides	spectrophotometry	STN ISO 6703-1 (PPL/AG/0049)	
13.	Waste water Underground water Surface water	Chemical oxygen demand	spectrophotometry	Working Procedure Hach (STN ISO 15705) (PPL/AG/0050)	cuvette tests LCI 500, LCK 1414
14.		Total phosphorus		Working Procedure Hach (STN EN ISO 6878) (PPL/AG/0051)	cuvette tests LCK 349
15.		Total nitrogen		Oxidative digestion with peroxodisulfate	Working Procedure Hach (STN EN ISO 11905-1) (PPL/AG/0052)
16.	Underground water	Permanganate Index	potentiometric titration	PPL/AG/0053 (STN EN ISO 8467)	

Note:

- IR - Infrared Spectrophotometry
- GC - Gas Chromatography
- TCD - Thermal Conductivity Detector
- FID - Flame Ionization Detector
- IC - Ion Chromatography
- UV VIS - Ultra Violet and Visible Detector

