

## 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)	ČSN ISO 579 (PPL/AG/0037)	
		Analytical water		PPL/AG/0038 (ASTM D 7582) (manual Leco)		
2.	Solid fuels: - coal	Ash		PPL/AG/0038 (ASTM D 7582) (ČSN ISO 1171) (manual Leco)		
				ČSN ISO 1171 (PPL/AG/0039)		
	Solid fuels: - coke	Ash		PPL/AG/0038 (ASTM D 7582) (ČSN ISO 1171) (manual Leco)		
				ČSN ISO 1171 (PPL/AG/0039)		
3.	Solid fuels: - coal	Volatile matter	ČSN 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)		
Gross heating value		calorimetry	ČSN ISO 1928 (PPL/AG/0043)			
6.		Net calorific value		calculation		

record number: 11834/327230

Slovenská národná akreditačná služba, Karloveská 63, P.O.BOX 74, 840 00 Bratislava



## Annex to the Certificate of Accreditation No. S-024 dated 12.12.2024.

The Annex is an integral part of the Certificate of Accreditation

Item	Subject of test		Applied method		The other specifications
	Subject	Property/Parameter	Kind/Type	Indication	
7.	Gases	Methane (CH <sub>4</sub> )	GC-TCD GC-FID	PPL/AG/0044 (ASTM D 1946)	
		Hydrogen (H <sub>2</sub> )	GC-TCD		
		Oxygen (O <sub>2</sub> )	GC-TCD		
		Nitrogen (N <sub>2</sub> )	GC-TCD		
		Carbon dioxide (CO <sub>2</sub> )	GC-TCD		
		Carbon monoxide (CO)	GC-TCD		
		Ethen (C <sub>2</sub> H <sub>4</sub> )	GC-FID		
		Ethane (C <sub>2</sub> H <sub>6</sub> )	GC-FID		
		Acetylene (C <sub>2</sub> H <sub>2</sub> )	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			
		Ammonium			
9.		Ammonium nitrogen	spectrophotometry	Working Procedure Hach (STN ISO 7150-1) (PPL/AG/0046)	cuvette tests LCK 304 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

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