



EXECUTIVE AGENCY
BULGARIAN ACCREDITATION SERVICE

BAS reg. № 119 ЛИ

Date: 10.03.2021

Valid until: 30.09.2023

CERTIFICATE OF ACCREDITATION

**PRINTING WORKS OF THE BULGARIAN NATIONAL BANK JSC
TECHNICAL QUALITY CONTROL SECTOR**

Management and laboratory addresses: 117 Tsarigradsko Chaussee Blvd., 1784 Sofia

UIC: 130800278

Scope of accreditation:

To perform testing of:

Papers, Inks, Finished products (printed securities and documents)

To perform sampling of: Papers, Inks

ACCREDITED ACCORDING TO БДС EN ISO/IEC 17025:2018

Order № A 129/10.03.2021 is an integral part of Certificate of accreditation,
4 pages totally.

Date of initial accreditation: 30.09.2019

Executive director:
Eng. Irena Borislavova



EA BAS



ORDER

No A 129

Sofia, 10.03.2021

Pursuant to Art. 10, para. 1, item 2a of the Law on National Accreditation of Conformity Assessment Bodies and item 5.3.1 in connection with item 4.3.8 of Accreditation Procedure BAS QR 2, assessment report reg № 466/119 ЛИ/В/30.06.2020, Annex № А 466/119 ЛИ/39/В/16.11.2020 and Order № А 128/10.03.2021, I hereby

AMEND

Order № А 429/30.09.2019 to Certificate reg № 119 ЛИ/30.09.2019, valid until 30.09.2023 of EA BAS, as follows:

**THE TECHNICAL QUALITY CONTROL SECTOR
at PRINTING WORKS OF THE BULGARIAN NATIONAL BANK JSC**

Management and laboratory address: 117 Tsarigradsko Chaussee Blvd., 1784 Sofia

To perform testing of:

№	Tested products	Type of test / characteristic	Test methods (standard/validated)
1	2	3	4
1.1	Paper	Grammage, [g/m ²]	ISO 536
1.2		Thickness, [μ]	ISO 534
1.3		Dimension and dimensional tolerancing, [mm]	ISO 14405-1
1.4		Tensile strength, [N]	ISO 1924-2
1.5		Tensile extension, [mm]	ISO 1924-2
1.6		Breaking length, [m]	ISO 1924-2
1.7		Tensile strength after immersion in water, [N]	ISO 3781
1.8		Wet Tensile extension, [mm]	ISO 3781
1.9		Wet strength retention, [%]	ISO 3781
1.10		Folding endurance (Schopper – Falzer)	ISO 5626
1.11		Tearing resistance (Elmendorf), [mN],	ISO 1974
1.12		Moisture content – Oven-drying method [%]	ISO 287
1.13		Ash content at 525°C, [%] Residue (ash) at 525°C, [%]	ISO 1762
1.14		Roughness Bendtsen, [ml/min]	ISO 8791-2
1.15		Air permeance Bendtsen (Porosity), [ml/min]	ISO 5636-3
1.16		Water absorption /Cobb method/, [g/m ²]	ISO 535
1.17		pH of aqueous extracts	ISO 6588
1.18		Opacity, Illuminant C, UV adjusted, C/2 ° [%]	ISO 2471
1.19		Color, CIEL*a*b* system,	ISO 5631

		Illuminant D 65/10,UV adjusted/excluded Color distance, CIEL*a*b* system, [ΔE]	ISO 11475
1.20		CIE Whiteness, Illuminant D65, UV adjusted/excluded	ISO 11475
1.21		ISO Brightness, Illuminant D65, UV adjusted/excluded	ISO 2470-2
1.22		Security fibers	IVM 4.1:2019
1.23		Security elements	IVM 4.1:2019
1.24		Estimation of contraries, [mm ² /m ²]	ISO 15755
2.1	Inks	Color, CIEL*a*b* system, Illuminant D65/10 ⁰ , UV adjusted/excluded Color distance, CIEL*a*b* system, [ΔE]	ISO 5631-2
2.2		Color strength, [index]	ISO 5631
2.3		Drying time on glass, - surface, [h] Drying time on glass, - in dept, [h]	ISO 2834-1 ISO 2834-2
2.4		Viscosity, [Pa.s]	ISO 3219
2.5		Initial tack, [TU], Max. tack, [TU], Time to reach maximum tack, [s]	ISO 12634 ISO 12634 ISO 12634
2.6		Particle size, [μm]	ISO 2834-1 ISO 2834-2
2.7		Rub resistance ink, [IGT prints]	ISO 2834-1 ISO 2834-2 ISO 2834-3
2.8		Security optical properties /-IR effect, [%]	IVM 4.2:2019
2.9		Security optical properties /-UV effect	IVM 4.2:2019
2.10		Security optical properties (requested by the customer)	IVM 4.2:2019
3.1	Finished product (printed securities and documents)	Rub resistance test-dry/wet printed securities and documents	ASTM D5264
3.2		Crumpling test-dry/wet printed securities and documents	ISO 2834-1 ISO 2834-2 ISO 2834-3

To perform sampling of:

№	Name of tested products	Method of Taking Samples
1	2	3
1.	Papers	ISO 186 IVM 5.1:2019
2.	Inks	IVM 5.1:2019

* The introduction of new standard version or standard, which modify them, is permitted. The laboratory maintains an actual list of the standards and their dated versions.

IVM = In-house Validated Method

References:

IVM 4.1:2019 Security elements and special security features of papers;
 IVM 4.2:2019 Special features of inks. IR-protection, UV-protection (by customer request);
 IVM 5.1:2019 Sampling to determine average quality of paper;
 IVM 5.2:2019 Sampling of inks.

I HEREBY ORDER

To issue the Certificate of accreditation reg. № 119 ЛИ/10.03.2021, valid until 30.09.2023 and this order enclosed as an integral part of it.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of Accreditation Certificate reg. № 119 ЛИ/30.09.2019, valid until 30.09.2023, and the enclosure – Accreditation Order No. A 429/30.09.2019, annexed to it.

The Certificate of accreditation with the enclosure to be received at the office of EA BAS by the Manager / representative of Printing Works Of The Bulgarian National Bank Jsc, the Manager of The Technical Quality Control Sector or by other authorized person.

This order is to be announced to Printing Works Of The Bulgarian National Bank Jsc within a 3-day period from its issuance.

Eng. Irena Borislavova
Executive Director of Executive Agency
"Bulgarian Accreditation Service"

