

ICS 13.310
CCS A 90



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 38278.2-2025

Replacing GB/T 18733-2002

**Technical requirements of holographic anti-counterfeiting
products - Part 2: Anti-counterfeiting holographic paper**

全息防伪产品技术条件 第2部分：防伪全息纸

Issued on: August 1, 2025

Implemented on: February 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface	III
Introduction	IV
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Categories	2
5 Technical Requirements	2
6 Test Method	4
7 Inspection Rules	6
8 Marking, packaging, transportation, storage	7

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 2 of GB/T 38278. GB/T 38278 has been published in the following parts.

- General technical requirements for holographic anti-counterfeiting products (GB/T 17000-2009);
- Technical requirements for holographic anti-counterfeiting products - Part 3: Anti-counterfeiting holographic hot stamping foil (GB/T 38278.3-2025);
- Holographic anti-counterfeiting film (GB/T 23808-2009);
- Part 6: Cold stamping holographic anti-counterfeiting foil (GB/T 38278.6-2019).

This document replaces GB/T 18733-2002 Anti-counterfeiting holographic paper. Compared with GB/T 18733-2002, except for structural adjustments and editorial In addition to the modifications, the main technical changes are as follows.

- a) The content of "Scope" of anti-counterfeiting holographic paper has been changed (see Chapter 1, Chapter 1 of the 2002 edition);
- b) Change "holographic paper" to "anti-counterfeiting holographic paper" and add the definition of "skewness" (see 3.9);

- c) Changed "Classification of Anti-Counterfeiting Technology" to "Classification" and modified the classification content (see Chapter 4, Chapter 4 of the 2002 edition);
- d) The quality requirements for "black spots" in "appearance quality" have been changed (see Table 1, Table 1 of the 2002 edition);
- e) Deleted "anti-counterfeiting strength" (see Chapter 5 of the 2002 edition);
- f) The content of "Product Specifications" has been changed (see 5.2, 6.2 of the 2002 edition);
- g) Changed the content of "Characteristic Index", deleted "Tensile Strength (Wet Longitudinal)" in "Characteristic Index", changed "Glossiness" and "Signal-to-Noise Ratio", Added "number of anti-counterfeiting identification features", "anti-counterfeiting strength", "stability" and "identification performance" (see 5.3, 6.3 of the 2002 edition);
- h) Added test methods for "number of anti-counterfeiting identification features", "composite fastness", "anti-counterfeiting strength", "stability" and "identification performance" (see 6.4.2.1, 6.4.3, 6.4.4, 6.4.5);
- i) Modified the contents of "Printing Surface Strength", "Glossiness", "Signal-to-Noise Ratio" and "Diffraction Efficiency" in "Test Methods" (see 6.4, 2002 Edition) 7.4).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Anti-Counterfeiting Standardization Technical Committee (SAC/TC218).

This document was drafted by: Shandong Taibao Information Technology Group Co., Ltd., Zhejiang Jinghua Laser Technology Co., Ltd., Juwang Technology Co., Ltd.

Co., Ltd., Sichuan Yibin Plus Packaging Materials Co., Ltd., Hubei Huagong Image Technology Development Co., Ltd., Shenzhen Shenda Aurora Technology Co., Ltd., Zhejiang Yaxin Packaging Materials Co., Ltd., Shanghai Weikai Optoelectronic New Materials Co., Ltd., Zhejiang Huangyan Sida Badge Factory, Laiyang Yintong Paper Co., Ltd., Shaoxing Yilong Laser Technology Co., Ltd., Beijing Conventionman Electronic Systems Co., Ltd., Shenzhen Kaili Chengshi Industry Development Co., Ltd., Shanghai Anti-counterfeiting Technology Product Evaluation Center, Ministry of Public Security Identification Center, and Bairen New Materials (Guangzhou) Co., Ltd.

The main drafters of this document are: Gong Jie, Xiong Jianhua, Zhao Bo, Sang Haiming, Gao Rui, Lu Qin, Cheng Xiangfeng, Zhou Qian, Sun Xiaoyan, Li Bo, Wang Minghai, Zhou Bo, Zeng Yongwei, Xu Kaibo, Kong Xiuying, Zhang Xuebing, Huang Yanyan, He Yisong, Yang Xiaobiao, Xie Yunbin, Lu Liang, Liu Dongpei, Wang Peifang, Qi Xin, Xie Ying, Long Liang, Luo Jun, and Zhou Junchao.

The previous versions of this document and the documents it replaces are as follows.

- First published in 2002 as GB/T 18733-2002;
- This is the first revision.

Introduction

As one of the major categories of anti-counterfeiting technology products, holographic anti-counterfeiting products are widely used in product identification, labeling and outer packaging.

It is also commonly used in the production of national securities, certificates and certificates, and has a wide range of applications. This series of standards is mainly based on the production process of holographic anti-counterfeiting products.

Classify by craftsmanship and anti-counterfeiting features.

GB/T 38278 "Technical Conditions for Holographic Anti-counterfeiting Products" is planned to consist of 6 parts.

- Part 1: General technical requirements for holographic anti-counterfeiting products. The purpose is to provide general rules for holographic anti-counterfeiting products.
- Part 2: Anti-counterfeiting holographic paper. The purpose is to provide relevant requirements and test methods for anti-counterfeiting holographic paper.
- Part 3: Anti-counterfeiting holographic hot stamping foil. The purpose is to provide the relevant requirements and test methods for anti-counterfeiting holographic hot stamping foil.
- Part 4: Holographic anti-counterfeiting films. The purpose is to provide relevant requirements and test methods for anti-counterfeiting holographic films.
- Part 5: Technical requirements for holographic anti-counterfeiting plate making. The purpose is to provide relevant requirements and classification for the plate making of anti-counterfeiting holographic products.
- Part 6: Cold stamping holographic anti-counterfeiting foil. The purpose is to provide the relevant requirements and test methods for cold stamping anti-counterfeiting holographic foil. Test method.

This document aims to standardize the production, application and inspection of holographic anti-counterfeiting paper so that holographic paper can better play its anti-counterfeiting effect and ensure its quality.

The stability and controllability of the system are of great significance to protecting the legitimate rights and interests of manufacturers, users and consumers, and maintaining national security and stability. Important significance.

Technical requirements for holographic anti-counterfeiting products Part 2:
Anti-counterfeiting holographic paper

1 Scope

This document specifies the technical requirements, inspection rules, marking, packaging, transportation and storage of anti-counterfeiting holographic paper, and gives the test methods and classification information.

This document applies to the production, inspection and sales of anti-counterfeiting holographic paper made using holographic (including micro-nano optical structure) technology and processes.

2 Normative references

GB/T 450

GB/T 451.1

GB/T 451.2

GB/T 459

GB/T 462

GB/T 2828.1

GB/T 2829

GB/T 8808-1988

GB/T 8941-2013

GB/T 17000-2009

GB/T 17004

GB/T 19425-2025

GB/T 22365-2008

3 Terms and Definitions

The terms and definitions defined in GB/T 17004 and the following apply to this document.

3.1

The product is made with paper as the base material, using holographic (including micro-nano optical structure) technology, through various processes such as molding or transfer.

3.2 plategap