ICS 13.310
CCS A 90

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 19425-2025

Replacing GB/T 19425-2003

General technical requirements of anti-counterfeiting technical products

防伪技术产品通用技术条件

Issued on: June 30, 2025 **Implemented on: January 1, 2026**

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

Table of Contents

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 replaces GB/T 19425-2003 "General Technical Requirements for Anti-Counterfeiting Products".

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) Added "Anti-counterfeiting", "Anti-counterfeiting technology", "Anti-counterfeiting identification features", "Anti-counterfeiting strength", "Anti-transfer", "False recognition rate", "Anti-counterfeiting traceability", "Comprehensive anti-counterfeiting" The terms and definitions of "first-line anti-counterfeiting technology", "second-line anti-counterfeiting technology" and "third-line anti-counterfeiting technology" (see Chapter 3);

b) Deleted "anti-counterfeiting mark", "structure and (or) anti-counterfeiting packaging technology products", "anti-counterfeiting materials", "computer-multimedia digital information anti-counterfeiting" The terms and definitions of "technology products", "biometric identification anti-counterfeiting technology products" and "security period" (see Chapter 3 of the 2003 edition);

c) Changed the terms and definitions of "anti-counterfeiting technology product", "identity uniqueness" and "stability" (see 3.3, 3.6, 3.9, 2003 edition) 3.1, 3.7, 3.8);

d) "Classification" has been changed (see Chapter 4, Chapter 4 of the 2003 edition);

e) The "anti-counterfeiting strength" requirement has been changed to include the element of advanced anti-counterfeiting technology (see 5.1, 2003 edition);

f) Changed the "identity uniqueness" requirement to "identity uniqueness" and "identity anti-transfer performance" (see 5.2, 5.3, 5.2 of the 2003 edition);

g) The "recognition performance" requirement has been changed to include recognition mode adaptability, recognition scenario applicability, machine reading error rate and machine reading accuracy.

Four elements of speed (see 5.4, 2003 edition);

h) The "stability" requirement has been changed (see 5.5, 5.3 of the 2003 edition);

i) The requirements for "technical security and confidentiality" have been modified (see 5.8, 5.7 of the 2003 edition);

j) The "safety period" requirement has been deleted (see 5.8 of the 2003 edition);

k) Deleted "labeling, packaging, transportation and storage" (see Chapter 8 of the 2003 edition);

l) The "Method for Determining the Level of Anti-Counterfeiting Technology" (see Appendix A of the 2003 Edition) has been changed.

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: China Anti-Counterfeiting Industry Association, Chengdu Push Information Automation Co., Ltd., Zhejiang Jinghua Laser Technology Co., Ltd.

Company, Sichuan Yibin Plus Packaging Materials Co., Ltd., Shandong Taibao Information Technology Group Co., Ltd., Weirong Technology Co., Ltd., Shanghai Tianchen Micro-Nano Technology Co., Ltd., Quantum Cloud Code (Fujian) Technology Co., Ltd., Beijing Zhaoxin Information Technology Co., Ltd., Hubei Gedian Development Zone Chenguang Industrial Co., Ltd., Zhongshan Guoan Torch Technology Development Co., Ltd., Beijing Yinuoer Printing Co., Ltd., Donggang Co., Ltd., Suzhou Suda Weige Technology Group Co., Ltd., Shenzhen Shenda Aurora Technology Co., Ltd., Guangdong Heng Lixin Packaging Materials Co., Ltd., Shantou Hengshun Packaging Materials Co., Ltd., Juwang Technology Co., Ltd., Shenzhen Lihe Anti-counterfeiting Technology Co., Ltd.

Company, Wuhan Baochengxin Technology Co., Ltd., Guangzhou Tianyan Huzheng Commodity Anti-Counterfeiting Technology Co., Ltd., Luzhou Laojiao Co., Ltd., Guangzhou Municipal People's Government Min Printing Factory Co., Ltd., Zhejiang Huangyan Sida Badge Factory, Laiyang Yintong Paper Co., Ltd., Shenzhen Kailicheng Industrial Development Co., Ltd.

Shenzhen Pengkai Printing Co., Ltd., Suzhou Youyinjia Anti-counterfeiting Technology Co., Ltd., Guangzhou Yinke Electronics Co., Ltd., China Institute of Metrology Research Institute, Shanghai Anti-counterfeiting Technology and Product Evaluation Center, Ministry of Public Security Identification Center, Hunan University of Technology, Guangdong Jinda New Materials Co., Ltd.

The main drafters of this document are: Long Liang, Deng Yang, Xie Gaoxiang, Wang Shatong, Xu Lixuan, Jiang Caihui, Xu Linyihui, Cheng Ye, Zhang Huirong, Tu Wenfang, Cai Yaozhun, Li Zheng, Zhou Qian, Wang Lijiang, Liu Bin, Sun Lihui, Zhang Li, Liu Xiaoning, Ke Huaheng, Wang Jian, Wei Huanjin, Peng Dehui, Jiang Limin, Sang Haiming, Jiao Xin, Ma Fengxin, Cai Qirong, He Cheng, Shi Zhixiong, Xu Kaibo, Li Bo, Yang Xiaobiao, Gu Jiaying, Shu Wenlin, Luo Wenjia, Gou Huachong, Gong Lu, Liu Rong, Huang Tiexiang, Ma Jiqiang, Zhong Yunfei, and Zhou Junchao.

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

- First published in 2003 as GB/T 19425-2003;

- This is the first revision.

1 Scope

This document specifies the anti-counterfeiting strength, identity uniqueness, anti-transfer performance, identification performance, stability of various anti-counterfeiting technologies and anti-counterfeiting technology products.

The general technical requirements such as safety, adaptability, use environment requirements, technical safety and confidentiality are described, and the corresponding test, verification and evaluation methods are described.

The classification of anti-counterfeiting technology and anti-counterfeiting technology products is given, and the acceptance rules are established.

This document applies to the research and development, design, production, inspection, evaluation and acceptance of various anti-counterfeiting technologies and anti-counterfeiting technology products.

This document is also applicable to guiding the preparation of various anti-counterfeiting technologies and anti-counterfeiting technology product standards.

2 Normative references

GB/T 2828.1

GB/T 2829

GB/T 17002

GB/T 17004

GB/T 22258

GB/T 34062

3 Terms and Definitions

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

3.1 anti-counterfeiting

Prevent unauthorized imitation, copying or modification (tampering) of physical goods or their packaging, related documents, data and services Behavior.

3.2

By setting, extracting and identifying the characteristic information of the protected object itself or the given characteristic information, it can accurately identify the protected object within the specified range and time.

Authenticity is not easy to imitate or copy.

3.3

Products and services that use anti-counterfeiting technology to prevent imitation, copying or modification (tampering), transfer and identification.

Note. Anti-counterfeiting technology products are also called anti-counterfeiting products.

3.4

Features that can be used to distinguish (identify) authenticity.