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Global Bifluorescent Security Ink Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bifluorescent Security Ink market size is expected to reach $ 731 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Bifluorescent Security Ink is a security-printing ink system engineered to deliver two distinguishable fluorescent signatures within the same printed feature—commonly achieved by incorporating two luminophores that respond differently under distinct excitation conditions (e.g., different UV wavelengths) or that emit separable spectral bands under the same excitation. It addresses a core limitation of single-fluorescence security features: once a single fluorescent effect becomes widely available, it can be approximated with low-end materials, reducing deterrence and weakening evidential power in authentication. By adding a second, independent fluorescent channel, bifluorescent inks enable tiered verification—supporting quick field checks with portable UV lights while also enabling instrumented inspection through optical filters, sensors, or spectral detection—thereby raising the technical barrier for counterfeiters and improving reliability across environments. Historically, security printing progressed from straightforward “invisible UV” effects toward more engineered, system-level optical security as luminescent materials, spectral selectivity, and process control matured; bifluorescent designs reflect this evolution by embedding multi-channel optical information without compromising printability or appearance. Upstream inputs typically include two fluorescent dye/pigment or rare-earth phosphor systems tuned for distinct emission behavior, binder/resin and curing platforms (water-based, solvent-based, UV-curable) that govern adhesion and durability, dispersion/rheology additives, stabilizers and low-migration design elements for packaging use, and substrate-matching vehicles/primers or overprint varnishes. Deployments often rely on complementary verification components such as multi-band UV illumination sources, optical filters, photodetectors/sensor modules, or machine-vision readers supplied by the broader

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authentication and inspection equipment ecosystem.In 2025, global production capacity for bifluorescent security inks reached 200,000 tons, with sales volume amounting to 145,000 tons. The average selling price was USD 3,603 per ton, and industry gross margins generally ranged from 25% to 35%.

The market for bifluorescent security inks is characterized by early adoption in high-security document applications and accelerating uptake in brand protection. In identity, fiscal, and other high-assurance print environments, buyers prioritize tiered authentication and a robust evidence chain; bifluorescent designs are attractive because they add an independent second verification channel while remaining compatible with established intaglio, offset, and screen workflows. In packaging and labeling, where inspection conditions are variable and adversarial imitation is common, single covert fluorescence can be approximated with commodity materials; bifluorescent solutions improve reliability without materially affecting visual appearance, making them increasingly relevant for high-risk categories such as pharmaceuticals, spirits, tobacco, and cosmetics. At the same time, end users demand stronger process and substrate compatibility—especially on films and under varnishes/laminates—along with abrasion and chemical resistance and low-migration performance, which elevates the importance of formulation engineering, batch consistency, and a broad pressroom operating window.

Going forward, the trajectory is toward richer spectral “fingerprints,” machine-readability, and tighter integration with digital workflows. Technically, bifluorescent effects will be combined more often with infrared-readable elements, magnetic features, color-shift effects, micro-structured components, or taggant systems to create multi-channel authentication strategies that can be interpreted reliably through optical filters, sensors, and machine vision. Operationally, bifluorescent marks will increasingly link to serialization, track-and-trace platforms, and mobile inspection tools, turning ink features into data points that can be captured, logged, and audited across regions and supply chains. From a manufacturing perspective, greater variability in UV-LED excitation bands, higher-speed converting lines, and stricter low-odor/low-VOC/low-migration expectations will push formulations toward more robust, sustainable platforms, alongside clearer standardization of test conditions to avoid inconsistent results across different light sources and readers.

Key drivers include persistent counterfeiting pressure, rising regulatory and compliance expectations for verifiable evidence, and long-term brand investment in channel integrity and consumer trust—amplified by e-commerce and cross-border distribution that accelerate the spread of fakes. Constraints are mainly implementation cost and system

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complexity: maintaining two luminophore systems in a single ink over long periods requires careful control of compatibility, settling, migration, durability, color/fluorescence consistency, and lot-to-lot reproducibility, while printers and brand owners must adopt more rigorous incoming, in-process, and finished-goods inspection standards. Practical barriers also arise from non-uniform field verification tools—differences in excitation wavelength, intensity, and filters can lead to inconsistent user experience and higher training needs. Overall, competition is shifting from isolated material effects to scalable, system-level delivery capability spanning formulation platforms, process support, verification standardization, and data-enabled integration.

This report studies the global Bifluorescent Security Ink production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bifluorescent Security Ink and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bifluorescent Security Ink that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Bifluorescent Security Ink total production and demand, 2021-2032, (Kiloton)
Global Bifluorescent Security Ink total production value, 2021-2032, (USD Million)
Global Bifluorescent Security Ink production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)
Global Bifluorescent Security Ink consumption by region & country, CAGR, 2021-2032 & (Kiloton)
U.S. VS China: Bifluorescent Security Ink domestic production, consumption, key domestic manufacturers and share
Global Bifluorescent Security Ink production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)
Global Bifluorescent Security Ink production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)
Global Bifluorescent Security Ink production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global Bifluorescent Security Ink market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SICPA, Sun Chemical, Luminescence Sun

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Chemical Security, Kao Collins, Angstrom Technologies, Flint Group, Microtrace, INX International Ink, ROTOFLEX, Gleitsmann Security Inks, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bifluorescent Security Ink market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kiloton) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bifluorescent Security Ink Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bifluorescent Security Ink Market, Segmentation by Type:

Offset Inks

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Intaglio Inks

Silkscreen Inks

Flexo Inks

Others

Global Bifluorescent Security Ink Market, Segmentation by Visibility:

Invisible Fluorescent Security Ink

Visible Fluorescent Security Ink

Dual-Mode Fluorescent Security Ink

Global Bifluorescent Security Ink Market, Segmentation by Excitation Wavelength:

Long-Wavelength Fluorescent Anti-Counterfeiting Ink

Short-Wavelength Fluorescent Anti-Counterfeiting Ink

Global Bifluorescent Security Ink Market, Segmentation by Application:

Safety Label

Official Identity Document

Banknotes

Other

Companies Profiled:

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SICPA

Sun Chemical

Luminescence Sun Chemical Security

Kao Collins

Angstrom Technologies

Flint Group

Microtrace

INX International Ink

ROTOFLEX

Gleitsmann Security Inks

PETREL

Cronite

Chroma Inks USA

hubergroup

artience

Shanghai Wancheng Anti-counterfeiting Ink

Mingbo Security Technology

GODO Printing Ink

Key Questions Answered:

1. How big is the global Bifluorescent Security Ink market?

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2. What is the demand of the global Bifluorescent Security Ink market?
3. What is the year over year growth of the global Bifluorescent Security Ink market?
4. What is the production and production value of the global Bifluorescent Security Ink market?
5. Who are the key producers in the global Bifluorescent Security Ink market?
6. What are the growth factors driving the market demand?

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