

China's largest contact lens manufacturers Constar Launches Patented Silicone Hydrogel Technology for Contact Lenses

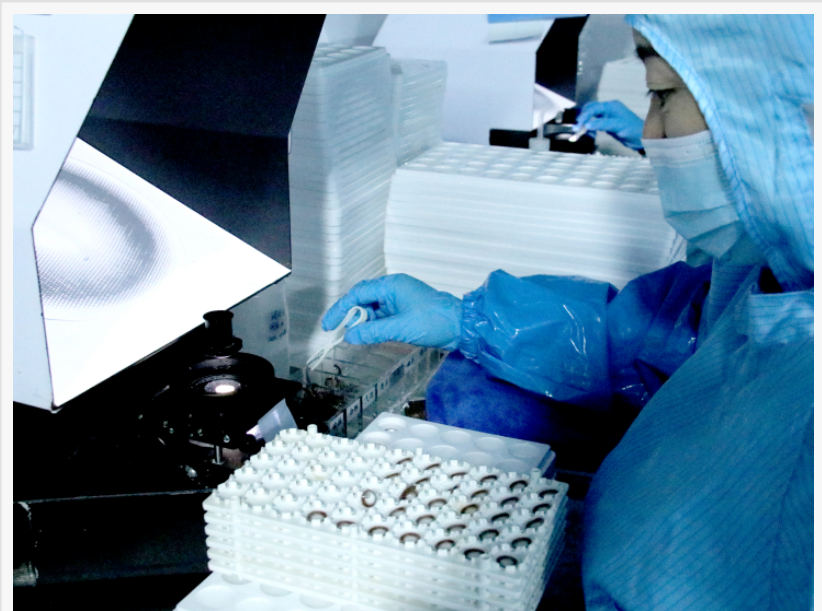
BAIYIN, GANSU, CHINA, August 7, 2026 /EINPresswire.com/ -- Chinese [dual-certified manufacturer](#) introduces high oxygen permeable colored lenses using proprietary Sandwich Comfort Technology, setting a new standard for eye health and aesthetics.

[Gansu Constar Technology Group](#), one of China's largest contact lens manufacturers, today announced the launch of its patented silicone hydrogel technology for colored contact lenses — a development that combines high oxygen permeability with vibrant color delivery in a single lens.

The new technology, branded as Patented Sandwich Comfort Technology, addresses a long-standing challenge in the colored contact lens industry: integrating color layers into silicone hydrogel materials without compromising the oxygen transmission that makes silicone hydrogel lenses healthier for extended wear.

Sandwich Comfort Technology: How It Works

Silicone hydrogel has been the gold standard material for clear contact lenses for over two decades, offering up to five times greater oxygen transmissibility than traditional hydrogel materials. However, integrating color pigments into silicone hydrogel has proven technically challenging because conventional dye application methods can create barriers that reduce



oxygen flow to the cornea.

Constar's Patented Sandwich Comfort Technology solves this problem through a dual-layer encapsulation process. Color pigments are securely sealed between two micro-layers of silicone hydrogel polymer, creating a "sandwich" structure that prevents dyes from coming into contact with either the cornea or the eyelid.

"The color is literally locked between two protective layers," said Dr. Wei Lin, Head of Quality Assurance at Constar. "This dual-layer encapsulation ensures uncompromised safety alongside high-speed aesthetic capabilities. The wearer gets the color they want with the oxygen their eyes need."

The result is a colored contact lens that delivers the aesthetic benefits consumers demand while maintaining the eye health advantages that silicone hydrogel provides — including reduced dryness, longer comfortable wear times and lower risk of hypoxia-related complications.

Why Silicone [Hydrogel Colored Lenses](#) Matter in 2026

The launch comes at a time when consumer demand for healthier lens materials is accelerating. The global silicone hydrogel color contact lens market was valued at USD 892.4 million in 2025 and is projected to grow at a compound annual growth rate of 7.9 percent through 2034, reaching USD 1,876.5 million.

Several factors are driving this growth:

Consumer health awareness — wearers increasingly understand the importance of oxygen transmission to long-term eye health

Premium positioning — silicone hydrogel lenses command higher prices while delivering demonstrably better comfort

Daily disposable trend — the fastest-growing segment in colored lenses favors silicone hydrogel for all-day comfort

Social media scrutiny — viral content about lens quality has made consumers more discerning about materials

"Colored lens consumers in 2026 are more educated than ever before," said Michael Zhang, Director of Business Development at Constar. "They ask about oxygen permeability. They compare water content specifications. They want lenses that look beautiful and keep their eyes healthy. Our silicone hydrogel technology delivers on both fronts."

Multi-Market Compliance and Availability

Constar's silicone hydrogel colored lenses are manufactured under the company's existing FDA, CE 0197 and ISO 13485 certifications — providing a clear path into virtually every regulated market worldwide. The company holds additional regional certifications including AKL for Indonesia, TGA for Australia and SFDA for Saudi Arabia.

The silicone hydrogel colored lens line is available for OEM and ODM partners across all product categories, including natural enhancement tints, seasonal fashion colors, sparkle gradients and specialty cosplay designs. Full product specifications and sample availability can be requested through the company's official channels.

Physical samples of the new silicone hydrogel colored lenses are available for qualified inquiries, with delivery in approximately 10 days. Full production runs are completed in 30 to 45 days.

Industry Implications

Constar's entry into silicone hydrogel colored lenses signals a broader industry shift. As one of China's largest contact lens manufacturers — with six production facilities and a combined capacity of more than 15 million lenses per month — the company's material decisions influence supply chains across global markets.

"When a manufacturer of Constar's scale adopts silicone hydrogel for colored lenses, it accelerates the transition for the entire industry," said Dr. Wei Lin. "We expect this technology to become the standard for premium colored lenses within the next two to three years."

The development also strengthens Constar's competitive position against established silicone hydrogel colored lens producers in Japan and South Korea, offering global brands a cost-competitive alternative with the compliance documentation required for multi-market distribution.

For brand owners and distributors interested in evaluating Constar's silicone hydrogel colored lens technology, complimentary product samples and technical specifications are available upon request.

About Gansu Constar Technology Group

Gansu Constar Technology Group Co., Ltd. is a China-based contact lens manufacturer specializing in OEM and ODM services for global brands and distributors. Founded more than 40 years ago and headquartered in Baiyin, Gansu Province, the company operates six production facilities with a combined capacity of 15 million lenses per month. Constar holds FDA, CE 0197 and ISO 13485 certifications — the only contact lens manufacturer in China to hold all three simultaneously — and serves partners in more than 50 countries. For more information, visit www.constarfactory.com.

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