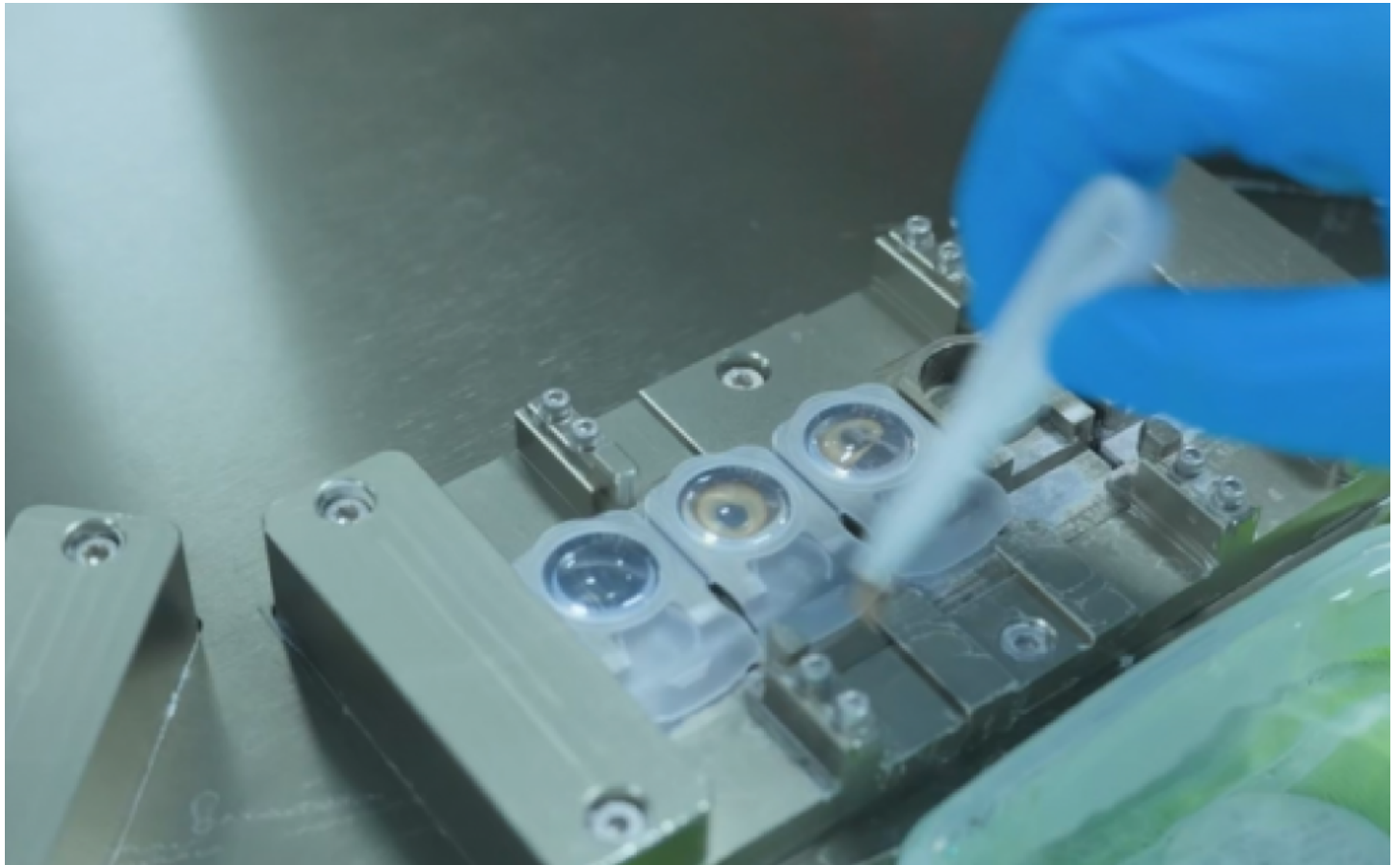


Constar Debuts High Oxygen Permeable Silicone Hydrogel Technology for Contact Lenses



Baiyin, Gansu Jul 16, 2026 ([Issuewire.com](https://www.issuewire.com)) - As global consumer demand shifts heavily toward long-wear safety and ocular health, the contact lens industry faces a critical technical challenge: balancing vivid cosmetic design with optimal corneal oxygenation. Addressing this market gap head-on, Gansu Constar Technology Group (Constar), a global leader with 40 years of optical manufacturing mastery, has officially unveiled its next-generation material breakthrough.

This new high-oxygen-permeable material infrastructure is engineered to completely redefine comfort standards for global private label brands, D2C beauty disruptors, and mass market medical distributors seeking premium solutions.

Material Science Breakthrough for Long-Wear Comfort

Traditional cosmetic contact lenses, primarily manufactured from standard hydrogel, often struggle with lower breathability, leading to dryness and fatigue during extended wear. Constar's new proprietary formulation introduces an advanced polymer network that drastically accelerates oxygen transmissibility ($\text{\$Dk/t\$}$) directly to the cornea.

By scaling up the production of this hyper-breathable material, the group has reinforced its global reputation as a cutting-edge [silicone hydrogel contact lens factory](#). The new formulation allows up to five

times more oxygen to pass through the lens matrix compared to conventional materials, virtually eliminating the risk of hypoxia-related redness and maximizing all-day hydration.

"Modern consumers are demanding eye-care products that perform brilliantly as both beauty accessories and high-performance medical devices," said the Chief Technology Officer at Constar. "Our next-gen formulation bridges this divide perfectly. We are empowering brands to offer a premium, health-first product that feels completely weightless from the first hour to the twelfth."

Advanced Engineering for Mass-Market Safety

To translate this material innovation into scalable products without losing aesthetic value, Constar integrates its premium formulation with automated manufacturing workflows. The material serves as the structural foundation for their advanced [automated molded casting contact lens](#) processes, ensuring that every batch exhibits flawless optical clarity and smooth, ultra-thin edge profiles.

Furthermore, Constar addresses the common consumer concern of direct pigment interaction. By utilizing its advanced **Patented Sandwich Comfort Technology**, the color pigments are securely sealed between two micro-layers of the new silicone hydrogel polymer. This dual-layer encapsulation prevents dyes from coming into contact with either the cornea or the eyelid, ensuring uncompromised safety alongside high-speed aesthetic capabilities.

Seamless Market Access for Global Distributors

In the highly regulated optical market, technical breakthroughs must be backed by absolute legal compliance to be viable for global rollout. Constar's advanced production ecosystem operates under strict international medical device standards. It stands out as an elite, audited [FDA certified contact lens factory](#) that concurrently maintains official EU CE (0197) and ISO 13485 certifications.

This universal compliance matrix provides an immediate advantage for international brand owners and optical chains. Because Constar's products pass strict international custom filters effortlessly, B2B buyers can deploy comprehensive [private label contact lens design](#) projects directly into highly competitive regions like North America, Europe, and the Asia-Pacific without regulatory friction.

With two massive production bases driving massive economies of scale, Constar is positioned as the premier, elite [high-volume contact lens manufacturer](#) capable of delivering this revolutionary technology globally. From initial prototyping to automated blister packaging, Constar offers a resilient, single-source solution for tomorrow's market leaders.

Industry FAQ :

Q1: What makes silicone hydrogel contact lenses better than standard hydrogel lenses?

Silicone hydrogel lenses feature an advanced polymer structure that delivers significantly higher oxygen permeability (\$Dk/t\$) directly to the eye. This high breathability prevents corneal hypoxia, reduces dryness, and allows for safe, comfortable extended daily wear compared to traditional soft lenses.

Q2: How does Constar guarantee the pigment safety of its colored silicone hydrogel lenses?

Every lens is built using Constar's proprietary Sandwich Technology. This process encapsulates the color layer completely within bio-compatible lens materials, meaning the pigment never touches the eye, ensuring a safe, irritation-free wearing experience.

Q3: Is Constar's new silicone hydrogel lens line fully compliant for import into the United States?

Yes. All silicone hydrogel products manufactured by Constar are produced in an FDA-certified factory that holds full EU CE and ISO 13485 medical device clearances, ensuring straightforward customs clearance and immediate compliance for US and European retail.

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