



A new vision for biomaterials

Advancing innovations in ocular therapeutics

HEALTH • NUTRITION • MATERIALS



Making a material difference in eye care



DSM is the industry leader in biocompatible materials. We have more than 20 years of experience in developing specialty polymers and other biomaterials for a wide range of applications. Currently, we apply our knowledge towards ophthalmic products, medical devices and drug delivery systems. We are working with many major medical device manufacturers and biopharmaceutical companies who look to benefit from our innovative technology and materials science expertise.

A depth of knowledge and insight

We are knowledgeable about the eye, inside and out, and how biomaterials work there – and can employ this knowledge to further advance your product portfolio. For contact lenses, we understand the challenges of oxygen permeability and are working towards improving end-of-day comfort by developing novel materials solutions to maintain corneal health. For conditions such as glaucoma, retinal diseases and others requiring local administration of therapeutic compounds, our portfolio of proprietary, bioresorbable drug delivery systems offers tunable formulations to meet a wide range of release requirements. Additionally, our lubricious and antimicrobial coatings can increase utility and patient comfort for a range of next-generation ocular devices.

For existing or customized applications, from initial research and development through regulatory approval, DSM offers the biomaterials expertise to help device manufacturers develop products that can improve the quality of lives.



Focusing on complete eye care

Our ever-expanding portfolio of proprietary, specialized biomaterials are instrumental in expanding applications for both the front and back of the eye.



- **Contact lenses:** Highly lubricious surfaces reduce the absorption of proteins and lipids on contact lenses for extended comfort and clearer vision.

We were pioneers in silicone hydrogel technology, instrumental in helping to create a new generation of extended-wear lenses by addressing the issue of oxygen permeability of the lens. Our VitroStealth® coatings incorporate our non-biofouling technology, designed to reduce unwanted protein absorption and cellular adhesion.

- **Drug delivery:** In addition to a portfolio of proprietary bioresorbable materials, our extensive in-house library of synthesis methods, formulation expertise and processing techniques are employed to help our biopharmaceutical customers develop customized injectable/implantable dosage forms of small and large molecules with release rates from weeks to months.
- **IOLs:** Specialized hydrophilic and non-biofouling coatings assure lubricious surfaces for IOL insertion devices, enabling smoother procedures and reducing damage to the lens. Our ComfortCoat® coatings are available in specialized formulations, with hydrophilic and/or antimicrobial properties.
- **Corneal inlays:** Our biomaterials can create new surfaces and constructs for corneal inlays that mimic the natural ocular environment and can be customized to match the design at hand.

Setting our sights on the future

With demographic trends such as an aging population and the increasing prevalence of diabetes, demands for new and improved ocular therapeutics continue to grow. We at DSM are dedicated to meeting these challenges. Using our keen insight and bright science, we've brightened the vision – and the lives – of millions of people worldwide. And we'll continue to do so, wherever our material solutions can help make a difference.



Let us help you realize your vision

If your company is looking to improve an existing product or create a new one, or facing an ophthalmic challenge that requires fresh ideas, DSM is here to help. Contact us now, and we'll provide the materials support to help you create therapy-enhancing products.



About DSM Biomedical

DSM is a global leader in biomedical materials sciences. We have more than 20 years of experience creating innovative, clinically proven biomaterials. We collaborate with medical device and biopharmaceutical companies as they improve products and therapies – providing solutions that help advance healthcare now and into the future.

Royal DSM is a global science-based company active in health, nutrition and materials. By connecting its unique competences in Life Sciences and Materials Sciences DSM is driving economic prosperity, environmental progress and social advances to create sustainable value for all stakeholders. DSM delivers innovative solutions that nourish, protect and improve performance in global markets such as food and dietary supplements, personal care, feed, pharmaceuticals, medical devices, automotive, paints, electrical and electronics, life protection, alternative energy and bio-based materials.

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