

# DuPont Transportation & Industrial

## Smarter healthcare

### Solutions for enabling positive patient outcomes



As the population continues to grow and age, chronic diseases are being managed more effectively for longer periods of time, but these advancements in patient care are also putting pressure on healthcare systems from a cost and resource perspective. To keep up with this change, the healthcare industry is undergoing a major shift, transforming from a “sick-care” focus to a “well-care” focus. This new approach will foster connected and patient-centric healthcare solutions that allow treatment at home or outside of the traditional hospital or health center setting, making the experience more convenient, comfortable and effective for patients.

DuPont is committed to improving the patient experience by working with designers and engineers to develop next generation healthcare solutions. We deliver dedicated technical, processing, application, and regulatory expertise combined with innovative materials-science-based solutions. All of this is backed by global research & development, regulatory support and manufacturing.



### We help enable smarter healthcare in critical applications including:

Medical Devices for

- Drug delivery devices
- Medical monitoring and diagnostics
- Advanced wound, incontinence, and ostomy care
- Specialty devices
- Medical consumables



Pharma Solutions for

- BioPharma processing
- Drug delivery systems – transdermal, topical, and transmucosal
- Gastrointestinal actives



Our deep heritage in engineered polymer and silicone chemistries tailored for healthcare applications provides unique advantages to our customers. We have proven product performance, combined with science and technology synergies across the new DuPont to provide customers with testing and quality assurance. Through customer collaboration, we empower patient care to promote independent, tech-savvy solutions that help share data between doctors and patients – positively transforming patient outcomes.

# DuPont solution range for smarter healthcare

DuPont smarter healthcare solutions help to improve patient compliance and the overall experience by:



## Design Flexibility

- Our broad range of solutions combining adhesives, elastomers, and resins are developing the next generation designs for medical devices like medical wearables, patches, inserts, and advanced wound solutions.
- With our resin portfolio, Dupont enables smaller, non- or less-invasive, portable drug delivery devices while ensuring long-lasting performance of the device. Our materials provide customers with low friction and wear; resistance to impact, chemicals, and fatigue; and dimensional stability.



## Enabling Different Therapeutics Forms

- Considering the need to improve the bioavailability of active pharmaceutical ingredients, DuPont proposes alternative solutions to oral dosage forms.
- Our solutions include pharmaceutical excipients for a safe and efficacious delivery of actives in transdermal and topical therapies, and we also improve the spreadability and sensory aesthetics of semi-solid forms, which leads to greater comfort and compliance.
- As the market for high-quality topical solutions for medical conditions has grown, DuPont's portfolio has responded with solutions that are designed to deliver the performance consumers expect and the regulatory compliance formulators need.



## Enhancing Connected Devices

- Aligned with the rise of the internet of medical things (IoMT) based on wearable and connected devices, DuPont is developing solutions to improve the quality of the data exchanged via sensor-enabled devices attached to the skin.
- Our chemistry set can help overcome the challenges of connected devices in terms of skin adhesion, insulation, protection, and patient comfort.



## Facilitating Cost-Effective Biologic Drug Manufacturing

- As patients find tremendous clinical benefits from large molecule drugs or biologics, DuPont is supporting the manufacturing process of these medicines with silicone tubing and molded assemblies.
- Our broad range of bio-pharma processing solutions meet the stringent performance and regulatory requirements for a product that represents the largest surface area in contact with this drug substance made from living cells.
- Customers rely on the purity of our silicone tubing for this sensitive manufacturing process and trust the single-use tubing which allows for reduced risk of contamination as well.



[dupont.com](http://dupont.com)

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. © 2019 DuPont.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.



Transportation & Industrial

Form No. 001-20199-HMC0819