

# News Release

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## **Celanese Introduces Medical Grades of Tribological Polymer**

Hostaform® MT® SlideX™ POM significantly reduces friction,  
wear and noise in medical devices

**DALLAS, FRANKFURT and SHANGHAI** (November 25, 2014) – Celanese Corporation (NYSE: CE), a global technology and specialty materials company, today announced the introduction of Hostaform® MT® SlideX™ POM, a family of tribologically modified, medically compliant engineered materials.

These new thermoplastic polymers enable the production of medical devices with a very low coefficient of friction and wear, low noise (squeaking) and eliminate the need for external lubrication. Medical devices manufactured with these new materials operate smoothly with a high degree of patient comfort and consistency from the very first use.

Hostaform® MT® SlideX™ POM is a competitive alternative to various kinds of high-performance, tribologically modified compounds. When compared to alternative materials, Hostaform® MT® SlideX™ POM offers a significantly lower coefficient of friction in medical devices combined with the Celanese medical technology (MT®) service package. This results in the potential to reduce costs by removing design constraints and simplifying material combinations in complex devices while avoiding external lubrication in manufacturing processes.

The MT® service package addresses quality, change control and regulatory compliance in accordance with pharmaceutical and medical industry expectations, based on Celanese's extensive experience with material supply to the medical market.

The advantages to the patient as a result of medical device manufacturers using Celanese's tribologically modified Hostaform® MT® SlideX™ POM include:

- reduction in force required to activate the medical device,
- no squeaking noise when operating the medical device, and
- increased comfort during use due to easy sliding properties.

"The use of medically compliant polymers from Celanese is helping the medical industry to design and manufacture medical devices which can significantly increase patient comfort by reducing friction and noise," said Andrew Brown, director of Celanese's global medical industry platform. "These new materials can improve design and processing capability and increase performance levels of key medical components. The introduction of these new low-tribological polymer grades from Celanese underscores our commitment to medical industry innovation which benefits patients who seek greater comfort and ease of use in their medical devices."

With a high mechanical performance profile combined with the Celanese MT® service package, Hostaform® MT® SlideX™ POM is well-suited for medical applications such as COPD (Chronic Obstructive Pulmonary Disease) and asthma inhalers, injection devices such as insulin pens, surgical instruments and portable diagnostic medical devices, where low friction, wear and medical compliance are important requirements.

**About Celanese Hostaform® / Celcon POM**

Celanese’s Hostaform® / Celcon® POM materials deliver outstanding wear, long-term fatigue and creep resistance from -40°C to 100°C and exhibit excellent toughness and rigidity, along with moisture, solvent and alkali resistance.

For more information, reference the Celanese [Hostaform® / Celcon® POM](#) website.

**About Celanese**

*Celanese Corporation is a global technology leader in the production of differentiated chemistry solutions and specialty materials used in most major industries and consumer applications. With sales almost equally divided between North America, Europe and Asia, the company uses the full breadth of its global chemistry, technology and business expertise to create value for customers and the corporation. Celanese partners with customers to solve their most critical needs while making a positive impact on its communities and the world. Based in Dallas, Texas, Celanese employs approximately 7,400 employees worldwide and had 2013 net sales of \$6.5 billion. For more information about Celanese Corporation and its product offerings, visit [www.celanese.com](http://www.celanese.com) or our blog at [www.celaneseblog.com](http://www.celaneseblog.com).*

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**Forward-Looking Statements**

*This release may contain “forward-looking statements,” which include information concerning the company’s plans, objectives, goals, strategies, future revenues or performance, and other information that is not historical information. When used in this release, the words “outlook,” “forecast,” “estimates,” “expects,” “anticipates,” “projects,” “plans,” “intends,” “believes,” “may,” “can,” “could,” “might,” “will” and variations of such words or similar expressions are intended to identify forward-looking statements. All forward-looking statements are based upon current expectations and beliefs and various assumptions. There can be no assurance that the company will realize these expectations or that these beliefs will prove correct. There are a number of risks and uncertainties that could cause actual results to differ materially from the results expressed or implied in the forward-looking statements contained in this release. These risks and uncertainties include, among other things: changes in general economic, business, political and regulatory conditions; changes in the price and availability of raw materials; the ability to improve productivity by implementing technological improvements; increased price competition and the introduction of competing products by other companies; market acceptance of our technology; the ability to obtain governmental approvals and to construct facilities on terms and schedules acceptable to the company; unavailability of required materials and equipment; unanticipated*

*operational or commercial difficulties, including failure of facilities or processes to operate in accordance with specifications or expectations; the ability to achieve and maintain plant utilization; ability of third parties, including our commercial partners, suppliers or others, to comply with their commitments to us; the cost or availability of capital necessary to fund plant construction; changes in the degree of intellectual property and other legal protection afforded to our products or technology, or the theft of such intellectual property; compliance and other costs and potential disruption or interruption of production or operations due to accidents, cyber security incidents, terrorism or political unrest or other unforeseen events or delays in construction or operation of facilities, including the occurrence of acts of war or terrorist incidents or as a result of weather or natural disasters; potential liability for remedial actions and increased costs under existing or future environmental regulations, including those relating to climate change; potential liability resulting from pending or future litigation, or from changes in the laws, regulations or policies of governments or other governmental activities in the countries in which we operate; changes in currency exchange rates and interest rates; and various other factors discussed from time to time in the company's filings with the Securities and Exchange Commission. Any forward-looking statement speaks only as of the date on which it is made, and the company undertakes no obligation to update any forward-looking statements to reflect events or circumstances after the date on which it is made or to reflect the occurrence of anticipated or unanticipated events or circumstances.*

*Editor's Note:*

*Tribological interactions: The tribological interactions of a solid surface's exposed face with interfacing materials and the environment may result in loss of material from the surface. The process leading to loss of material is known as "wear." Major types of wear include abrasion, adhesion, surface fatigue and tribochemical reaction (i.e.: corrosion). Wear can be minimized by modifying the surface properties of solids by one or more of "surface engineering" processes (also called surface finishing) or by use of internal and external lubricants.*