Celanese Demonstrates Benefits of Proven Engineered Materials for Components Used in Water Supply Systems

More than 30 Years of Experience in Drinking Water Applications

Sulzbach, Germany, Florence, Ky., Shanghai, PR China, Oct. 16, 2013 – Celanese Corporation (NYSE: CE), the global technology and specialty materials company, is showcasing a closed water circulation system that demonstrates the benefits of engineered materials used in filtration, storage and distribution at K 2013 in Ensuring the supply of water is one of the main tasks of the future. Thus, water and materials in contact with water are already subject to the most stringent regulations. Proven materials for drinking and waste water systems include: Hostaform® acetal copolymer (POM), Fotron® polyphenylene sulphide (PPS) and GUR® ultra-high molecular weight polyethylene (UHMW-PE). Celanese offers more than 30 years of experience and a wide range of globally approved materials. And Celanese supports customers in processing with specialist consulting – through to the finished product.

“Engineered materials from Celanese are found in applications throughout the water supply system, from treatment through transport and use, to waste water disposal,” said Eric Folz, Celanese application development engineer. “We are demonstrating the entire circulation system — a pump feeds water circulation through pipes, fittings, activated carbon filters, water meters, control valves, ducts in fittings and showers, faucet aerators, pressure regulators, flow control valves, backflow check valves and blow-molded tanks.”

Hostaform POM: Stable with a Tradition
“Hostaform POM is among the most reliable plastics for water applications – and has been so for many decades,” said Gabriel Hernández, Celanese application development engineer. “At K 2013, Celanese is showing a Hostaform fitting from the late ‘70s that in a long-term test at 20 bar pressure only failed after 34 years, or 301,064 hours. In 1978, the applications engineers predicted a service life of 300,000 hours. A CAE simulation, subsequently based on the original 2D component drawing, confirmed the exact point of the failure.”

Hostaform POM components can be coded with drinking water colors, slip-modified or fiber-reinforced, which make this material ideal for numerous water applications, from sprinklers through housing components to adapters for hoses.

**Fortron PPS: Formulated to Deliver Long-Term Durability**

Fortron PPS is ideal for use in water system applications, especially as a cost-saving substitute for metals. Glass fiber-reinforced grades provide great design freedom and allow for the integration of different functions in various components. Fortron PPS is approved contact with drinking water, and is used as fittings, water meters and recirculation pumps, and hot water boilers.

**GUR UHMW-PE: World Leader in Porous Applications**

GUR UHMW-PE is used in filtration — either compact as semi-finished products, injection molded parts or sintered for specific porosity. The most important properties of the material are the abrasion and wear resistance that ensure reliable function over a long period. Porosity and geometry of the porous part can be tailored to suit specific application requirements, making it an ideal material for filters with or without activated carbon.

**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 7,600 employees worldwide and had 2012 net sales of $6.4 billion. For*
more information about Celanese Corporation and its product offerings, visit www.celanese.com or our blog at www.celaneseblog.com.

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