

News Release



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Ticona to Exhibit Engineering Polymers and Composites for Oil & Gas at SPE ATCE 2012

Florence, Ky., Sulzbach, Germany, Shanghai, PR China, October 3, 2012 –

[Ticona](#) Engineering Polymers is showcasing its engineering polymers and composite prepregs for the most extreme and challenging oil and gas operating environments at the Society of Petroleum Engineers' Annual Technical Conference and Exhibition ([ATCE 2012](#)) at [Booth # 930](#) from Oct. 8 to 10 in the **Henry B. Gonzalez Convention Center**, San Antonio.

The Ticona exhibit will highlight:

[Fortron®](#) PPS for [Pipe Liners](#) and Flexible Composite Pipe Subject to Sour Gas and Corrosive Conditions

Fortron polyphenylene sulfide delivers performance in some of the most extreme and challenging environments.

Harsh oilfield conditions can take their toll on the most resilient materials. Heat and corrosive elements like hydrogen sulfide (H₂S) and carbon dioxide (CO₂) pose a constant threat to oil and gas operations. In this hostile environment, Fortron PPS can minimize costly maintenance and repair. As a liner, it can greatly prolong the life of steel and offers many cost-effective advantages as an overall metal replacement.



Picture: Fortron® PPS Steel Pipe Liner

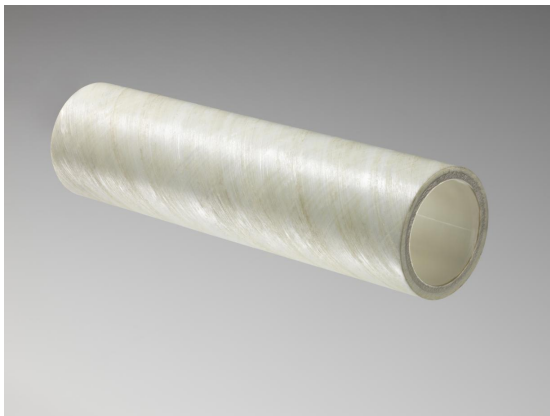
Successful high performance products based on Fortron PPS polymers are extensively used in a broad spectrum of applications in various industries, including oil and gas, automotive, industrial, electrical/electronic/semiconductor, and technical fibers and filters, which require key high performance material characteristics:

- High temperature resistance
- Chemical resistance
- Low permeation properties
- Dimensional stability
- High strength and modulus
- Wear resistance
- Corrosion resistance
- Flame resistance
- Hydrolytic stability

Celstran[®] CFR-TP Composites for Robust Piping Systems and Lightweighting Applications

Celstran continuous fiber-reinforced thermoplastic composites are available as unidirectional (UD) tapes, which can increase the in line burst and operating pressures of thermoplastic pipe when wound around and joined to piping systems for reinforcement, or as continuous rods, shapes and profiles that can replace steel tensile members in ropes and cabling applications both on- and off-shore. Celstran CFR-TP (continuous fiber composites) offer:

- Low weight with high stiffness and toughness
- Excellent impregnation technology for high performance mechanical and thermal properties
- Excellent dimensional stability
- Superior chemical and corrosion resistance



Picture: Celstran[®] CFR-TP Composite Pipe

Celstran CFR-TP UD tape can be used in on-shore and off-shore piping systems, including, including service lines, risers and umbilicals. These composite pipes are lightweight, flexible, durable and spoolable, allowing for fast installation speeds up to 500 meters an hour.

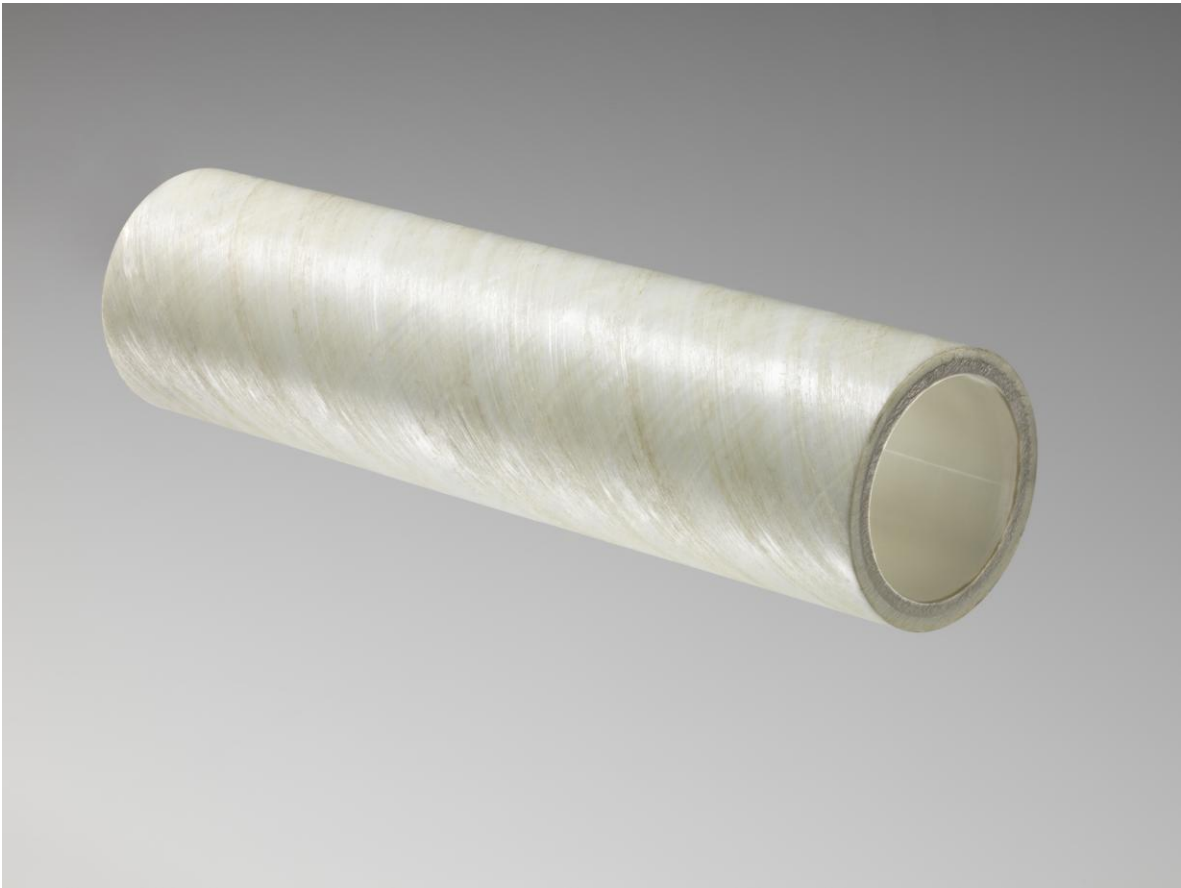
Click <http://www.celanese.com/ticona/application-list/Pipe-and-Liner-oil-gas-and-mining.aspx> to read how Ticona continues to develop engineering polymers and composites that deliver performance in some of the most extreme and challenging oil and gas operating environments.

About Ticona and Celanese

Ticona, the engineering polymers business of Celanese Corporation, produces and markets a broad range of high performance products, and posted net sales of \$1,298 million in fiscal 2011. Ticona employs more than 1,500 individuals at production, compounding and research facilities in the USA, Germany, Brazil and China. For more information, please visit www.ticona.com or www.ticona.cn (Chinese language).

Celanese Corporation is a global technology leader in the production of specialty materials and chemical products that are used in most major industries and consumer applications. Our products, essential to everyday living, are manufactured in North America, Europe and Asia. Known for operational excellence, sustainability and premier safety performance, Celanese delivers value to customers around the globe with best-in-class technologies. Based in Dallas, Texas, the company employs approximately 7,600 employees worldwide and had 2011 net sales of \$6.8 billion, with approximately 73% generated outside of North America. For more information about Celanese Corporation and its global product offerings, visit www.celanese.com or the company's blog at www.celaneseblog.com.

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Celstran® CFR-TP Composite Pipe



Fortron® PPS Steel Pipe Liner