

Solvay's Hyflon® PFA enables Beijing Xinshiyi to develop a more durable, energy efficient heat exchanger for coal-fired power plants

Guangzhou, China, May 17, 2017 – Solvay, a leading global supplier of specialty polymers, announced today that its advanced Hyflon® perfluoroalkoxy (PFA) fluoropolymer enabled China-based Beijing Xinshiyi Energy Conservation and Environmental Protection Company to develop a more efficient and reliable 600 MW MGGH heat exchanger for use in large coal-fired power plants.

“MGGH heat exchangers use the energy from the exhaust flue gas of coal-fired boilers to reduce emissions and help meet the stricter environmental policies defined by the 13th Five-Year Plan,” said Zhang Fang, commercial director of Beijing Xinshiyi. *“In order to support China’s Plan, we seek industry-leading material suppliers like Solvay to help us develop cutting-edge heat-exchangers that offer improved performance and reliability. Hyflon® PFA’s proven record in heat exchanger applications made it an excellent choice for our latest system design, and its success at Guodian Beilun proves we made a wise choice.”*

A semi-crystalline, fully-fluorinated melt-processable fluoropolymer, Hyflon® PFA was extruded to form the heat exchanger tubes that were then assembled into the modules comprising Beijing Xinshiyi’s system. The application signals the first use within China of Solvay’s Hyflon® PFA in a large-scale 600 MW MGGH heat exchanger. The new system has already demonstrated improved heat recovery, higher energy savings and reduced emissions since its installation three months ago at Guodian Beilun Power Station located in Zhejiang province, China.

Solvay’s Hyflon® PFA offers a higher temperature rating and broader chemical resistance than competitive solutions, which makes it highly suitable to withstand the extreme heat and harsh chemical environments within industrial-scale heat exchangers. These properties have enabled Hyflon® PFA to demonstrate nearly three decades of proven performance in heat exchanger applications in more than 30 coal-fired power plants in Europe and China. The material’s outstanding thermal stability and its resistance to corrosion and chemicals has supported operating lifetimes of over 20 years.

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About Beijing Xinshiyi Energy Conservation and Environmental Protection Company, Ltd.

Founded in 2011, Beijing Xinshiyi Energy Conservation and Environmental Protection Company, Ltd. is a dedicated heat exchanger manufacturer offering advanced solutions for coal power plants, waste incineration plants and chemical processing facilities. The company brings strong design and engineering capabilities in heat exchanger applications for heat recovery, energy saving and environmental protection markets.

About Solvay Specialty Polymers

Solvay Specialty Polymers manufactures over 1500 products across 35 brands of high-performance polymers – fluoropolymers, fluoroelastomers, fluorinated fluids, semi-aromatic polyamides, sulfone polymers, aromatic ultra-high performance polymers, high-barrier polymers and cross-linked high-performance compounds – for use in Aerospace, Alternative Energy, Automotive, Healthcare, Membranes, Oil and Gas, Packaging, Plumbing, Semiconductors, Wire & Cable, and other industries. Learn more at www.solvayspecialtypolymers.com.

About Solvay

Solvay is a multi-specialty chemical company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers in diverse global end markets. Its products and solutions are used in planes, cars, smart and medical devices, batteries, in mineral and oil extraction, among many other applications promoting sustainability. Its light weighting materials enhance cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 27,000 employees in 58 countries. Net sales were € 10.9 billion in 2016, with 90% from activities where Solvay ranks among the world's top 3 leaders. Solvay SA (SOLB.BE) is listed on Euronext Brussels and Paris (Bloomberg: SOLB.BB - Reuters: SOLB.BR) and in the United States its shares (SOLVY) are traded through a level-1 ADR program.

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