

### **LANXESS offers new Lewabrane® elements for water treatment**

LANXESS at Aquatech 2013, April 8-10, Hall 1/ Booth 1004

- Membrane technology for water with fouling potential
- LewaPlus™ design software now also for reverse osmosis with downstream ion exchanger

**New Delhi, April 8, 2013:** Specialty chemicals group LANXESS showcased solutions for water and wastewater treatment from its Lewatit® and Lewabrane® product range along with LewaPlus™ design software at Aquatech India 2013 in New Delhi. Three new Lewabrane® reverse osmosis (RO) types were showcased; each of the new FR membrane types are recommended for waters with strong fouling potential. The RO membrane elements have a surface area of 37.2, 34.4, and 8.4 square meters (equivalent to 400, 370, and 90 square feet). Lewabrane® RO B400 FR and Lewabrane® RO B370 FR have a diameter of 201 millimeters (8 inches), while Lewabrane® RO B090 FR 4040 has a diameter of 101 millimeters (4 inches).

All Lewabrane® products comprise a polyamide composite membrane, wound in several layers to form a spiral wound element. “Our membrane separation elements are characterized by a high degree of polymerization and a low surface charge, which in itself reduces the accumulation of dissolved solids at the membrane surface,” says Alan Sharpe, head of the RO Membrane Project at LANXESS’ Liquid Purification Technologies business unit. Furthermore, a special feed spacer has been incorporated in the newly developed FR types. “The new membrane elements were designed to generate greater turbulence in the feedwater channel, meaning that less solids accumulate on the membrane surface,” Sharpe explains.

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In membrane separation, fouling describes the process by which dissolved solids (colloids) form deposits on the membrane surface, leading to a reduction in separation capacity. The new FR elements from LANXESS reduce this kind of fouling, thereby extending maintenance intervals and increasing output capacity. The separation elements, manufactured at LANXESS' Bitterfeld site in Germany, were engineered specifically for industrial water treatment. The fields of application include the desalination of brackish and low-salinity water with a high potential for organic or biological fouling.

Also displayed at the Aquatech, was Lewatit<sup>®</sup>, one of the leading brands from LANXESS in the field of water treatment using ion exchange resins. Based on the relevant customer applications, the range of ion exchange resins, adsorbers and functional polymers is divided into the segments - water, foodstuffs, catalysis, biotechnology and chemicals processing. LANXESS offers new and established products from the Lewatit<sup>®</sup> range for all these sectors. In combination with Lewabrane<sup>®</sup> reverse osmosis (RO) membrane elements, they meet the highest demands in the industry.

“As one of the world’s leading trade fairs for drinking water, industrial water and wastewater treatment, Aquatech offers us a good platform for demonstrating our expertise”, said Mr. Prakash Shanmugam, Head - Liquid Purification Technologies Business Unit, LANXESS India. “With our world class production facility in Jhagadia, Gujarat, India is an important base for serving customers around the world. The ion exchange resins from our state-of-the-art plants in India and Germany as well as the RO membrane elements from Germany together make us a one-stop-shop supplier for water treatment needs by industries”, he added.

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The LewaPlus™ design software is a comprehensive tool for engineering systems that use Lewatit® ion exchange resins (IX) and Lewabrane® membrane elements for reverse osmosis (RO). The application calculates RO system configurations and their output, including feed pressure and permeates quality. LewaPlus™ is the only software application that can design an entire reverse osmosis process with downstream ion exchange, and the only one that can integrate in its calculations post-treatment involving a degasification system or chemical addition. This is a typical application for water treatment in power plants. The combination of membrane separation and ion exchange ensures that efficiency and economy go hand in hand.

For detailed information on the LewaPlus™ design software and for download the application free of charge, kindly visit [www.lewabrane.com](http://www.lewabrane.com).

As of April 1, 2013, the Ion Exchange Resins business unit has been renamed Liquid Purification Technologies (LPT). The reason for this change is the significant expansion of the product portfolio with the addition of membrane separation technology for reverse osmosis, in addition to the company's stronghold in ion exchange resins. This makes LANXESS one of the few companies that offer both ion exchange resins and reverse osmosis membrane elements – two different yet complementary water treatment technologies – from a single source. As a result, the Liquid Purification Technologies business unit will establish a lasting position as a leading provider of solutions for the treatment of liquid media.

For further queries please contact us at:

<http://lanxess.in/en/industries-products-india/business-unit-india/liquid-purification-technologies-india/>

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## About LANXESS

LANXESS is a leading specialty chemicals company with sales of EUR 9.1 billion in 2012 and roughly 17,200 employees in 31 countries. The company is currently represented at 48 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of plastics, rubber, intermediates and specialty chemicals. LANXESS is a member of the leading sustainability indices Dow Jones Sustainability Index (DJSI) World and FTSE4Good as well as the Carbon Disclosure Leadership Index (CDLI).

## Forward-Looking Statements

This news release may contain forward-looking statements based on current assumptions and forecasts made by LANXESS AG management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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You can find further information concerning LANXESS chemistry in our WebMagazine at <http://webmagazine.lanxess.com>.

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