

LANXESS at Ecwatech, June 5 - 8, 2012,  
Moscow, Hall 14, Stand 14 C 6.4, Crocus-Expo

### **RO Membrane elements for the Russian market**

- **Specialty chemicals company presents Lewabrane product line at Ecwatech**
- **LANXESS offers integrated solution concept**
- **Premium products for water treatment**

**Leverkusen** – Specialty chemicals company LANXESS is presenting its water treatment portfolio at Ecwatech 2012 in Moscow, Crocus-Expo (Hall 14, Stand 14 C 6.4). Beside the biodegradable dispersing and complexing agents Baypure for softening water and the ion exchange resins Lewatit the focus of the event is on Lewabrane-brand membrane elements. With immediate effect, specialty chemicals company LANXESS is offering Lewabrane membrane separation elements for reverse osmosis to complement its established Lewatit ion exchange resins for the Russian market. The former will be produced at the new production unit in Bitterfeld that went on stream last fall. Initially, customers will be able to buy two RO element types with different capacities that are based on polyamide thin-film composite membranes. Further, other RO element types will be added to the product range soon.

#### **Ideal for industrial application**

The main field of application for the currently available RO membrane separation elements is desalination of brackish water needed in many industrial applications, including the production of boiler feed water required in power stations. RO membrane and ion exchange water treatment processes complement each other perfectly, and the high treated water quality helps to prolong the service life of, for

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example, turbines and steam generators via protection against fouling, scale formation and corrosion.

Another application for the new Lewabrane RO membrane elements is the preparation of feedwater that customers can use for electrodeionization (EDI) applications. The EDI process allows for the production of ultrapure water with very low electrical conductivity without the need for regeneration chemicals. High performance RO membranes can provide a reduced load on the downstream EDI process improving cost performance. These membrane based processes have been increasingly adopted by the water treatment industry for preparation of high purity water.

### **A true synergy: Lewabrane and Lewatit**

“The combination of RO membrane separation and ion exchange ensures that efficiency and economy can go hand in hand in this and similar applications. This is true synergy,” says Alan Sharpe, Head of RO Membrane Strategic Project in LANXESS' Ion Exchange Resins business unit. Since LANXESS has products, experience and services for both technologies, this combination of processes is particularly attractive. “Our tried and tested Lewatit ion exchange resins and the new Lewabrane membrane elements can both demonstrate good value to water treatment customers,” adds Sharpe.

As premium products, membrane elements in the Lewabrane RO product family meet top quality standards and comply with all requirements for industrial use. With a standard length of 40 inches (1,016 mm) and a diameter of eight inches, Lewabrane RO B400 HR has an active membrane surface area of 400 square feet (37.2 m<sup>2</sup>). Salt rejection is 99.7 % for a daily permeate flow rate of 37.9 m<sup>3</sup> (average value under standard industry reference conditions; salt concentration in the feed: 2000 ppm, 225 psi, pH 7, 25 °C, and a single element recovery of 15 %).

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The Lewabrane RO B090 HF 4040 element has the same length but a diameter of only four inches and an active membrane surface area of 90 square feet (8.7 m<sup>2</sup>). “Thanks to a new ATD (anti-telescoping device) design, the surface area of the membranes exceeds that of other commercially available elements by almost six percent,” explains Sharpe. The new LANXESS filtration element owes its superior average permeate flow rate of 2500 gallons per day (9.4 m<sup>3</sup> per day) under standard conditions at a rejection level of 99.5 % to the greater active surface area of the RO membrane available inside the RO element.

Detailed information about the company’s ion exchange resin portfolio is available on the Internet at [www.lewatit.com](http://www.lewatit.com). Information on the membrane filtration elements can be found on the website [www.lewabrane.com](http://www.lewabrane.com).

LANXESS is a leading specialty chemicals company with sales of EUR 8.8 billion in 2011 and currently around 16,800 employees in 30 countries. The company is at present represented at 49 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 sustainable indices Dow Jones Sustainability Index (DJSI) World and FTSE4Good.

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#### **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.

#### **Information for editors:**

All LANXESS news releases and their accompanying photos can be found at <http://press.lanxess.com>. Recent photos of the Board of Management and other LANXESS image material are available at <http://photos.lanxess.com>. The latest TV footage, audiofiles and podcasts can be found at <http://multimedia.lanxess.com>.

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

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