

LANXESS expands Lewabrane range for water treatment

New membrane elements for reverse osmosis

Leverkusen – Specialty chemicals company LANXESS AG is offering five new types of Lewabrane membrane separation elements for reverse osmosis. With immediate effect HR (high rejection) types with membrane surface areas of 370 and 440 square feet and HF (high flow) types with membrane surface areas of 370, 400 and 440 square feet are available.

Says Alan Sharpe, head of the RO Membrane Strategic Project in LANXESS's Ion Exchange Resins business unit: "Our HR type elements are designed to provide extremely low salt passage in normal operation, with more than 99.7 percent salt rejection measured under standard conditions. The high rejection for critical ions like silica is also remarkable." According to Sharpe, the HF types score well in terms of the high water productivity.

The Lewabrane RO product types consist of spiral-wound polyamide composite membranes and are specially designed for treating water in industrial applications. Fields of application include the desalination of brackish and low-salinity waters, groundwater remediation and the production of boiler feed water required in power stations. The RO technology also facilitates demineralization by particle removal in microchip manufacture.

Product portfolio for reverse osmosis

The elements in the Lewabrane RO product family have a standard length of 40 inches (1,016 mm) and a diameter of either eight inches (201 mm) or four inches (101 mm).

Lewabrane B090 HF 4040, the membrane element with a diameter of four inches, has a unique ATD design. Thanks to an innovative structure with anti-telescopic devices at the ends of the elements, the

LANXESS AG

Contact: Ilona Kawan
Market Communications
Trade and Technical Press
51369 Leverkusen
Germany

Phone: +49 214 30-61684
Fax: +49 214 30-44865
Ilona.kawan@lanxess.com

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surface area of the membranes exceeds that of other commercially available elements by almost 6 percent. The bigger surface area results in higher water productivity. The superior permeate flow rate is 9.4 cubic meters per day on average under standard conditions, with a salt rejection of 99.5 percent.

“The combination of membrane filtration and ion exchange ensures that efficiency and economy can go hand in hand in industrial applications,” says Sharpe. Since the group offers both technologies, such process combinations are particularly attractive. “Our tried and tested Lewatit ion exchange resins and the new Lewabrane membrane elements can provide good cost performance, for example in the preparation of feed water for downstream EDI applications,” adds Sharpe. The membrane elements provide a stable lower-salinity permeate to minimize the load in downstream ion exchange and electrodeionization (EDI) operations, thus improving the cost-performance ratio.

The detailed descriptions of Lewabrane RO elements can be found online at 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.

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Market Communications
Trade and Technical Press
51369 Leverkusen
Germany

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Ilona.kawan@lanxess.com

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News Release

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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