

Sustainable water treatment through renewable raw materials

- New weak acid cation and weak base anion exchange resins from the LANXESS Lewatit product range
- WAC resins with 90 percent renewable raw material
- Use for sustainable domestic and commercial water treatment
- Portfolio additions carry LANXESS' sustainability umbrella brand Scopeblue

Cologne, November 3, 2022 – In addition to its conventional ion exchange resin portfolio made from fossil-based raw materials, specialty chemicals company LANXESS is now also offering products based on renewable raw materials following the mass balance approach. The new product family initially encompasses three weak acid and two weak base ion exchange resins.

LANXESS aims to make its entire supply chain climate-neutral by 2050. The switch to sustainable raw materials plays a central role in this. "With our new ion exchange resins based on sustainable raw materials, we are taking another step on this path. In addition, we are helping our customers to achieve their own climate targets," says Bettina Blottko, head of the Liquid Purification Technologies business unit at LANXESS.

WAC resins carry Scopeblue sustainability umbrella brand

The three new weak acid cation (WAC) have a carbon footprint that is up to 67 percent smaller than conventional types and consist of more than 90 percent renewable raw materials. In accordance with the mass balance approach they are chemically identical to conventional products and are produced in the same plants using the same processes.

LANXESS AG

Contact: Ilona Kawan Corporate Communications Spokesperson, Trade & Technical Press 50569 Köln Germany

Phone: +49 221 8885-1684 ilona.kawan@lanxess.com

Page 1 of 4

News Release

LANXESS Energizing Chemistry

The new types now included in the Lewatit product portfolio are marketed under the LANXESS Scopeblue sustainability umbrella brand. It was created for products that either exhibit a renewable raw material content of more than 50 percent or offer a carbon footprint of less than half that of their conventional counterparts made from conventional raw materials. The new Scopeblue variants of the wellknown products Lewatit S 8227, Lewatit S 8229 and Lewatit CNP P, which are used primarily for the partial softening of drinking water, actually meet both criteria, as more than half of the dry mass of each of these acrylic resins originates from acrylonitrile, which can be obtained from tall oil through mass balancing. This by-product of pulp production is then converted to propylene and reacted with ammonia, which is formed through the reduction of atmospheric nitrogen with "green" hydrogen.

LANXESS has also recently started producing styrene-based weak base anion (WBA) exchange resins – Lewatit MP 62 WS and Lewatit S 4528 – based on sustainably produced styrene. These are used primarily in the treatment of wastewater and chemical process flows as well as in the food industry. Due to the more complex synthesis pathways, the percentage of conventional raw materials in the end product cannot be reduced to the same extent for these resins as it can for WAC resins. "Since every percentage increase in sustainability achieved and every ton of CO₂ emissions saved are improvements, LANXESS is demonstrating that these resins, too, which bear 'Eco' in their name, were produced using sustainable, biobased or recycled raw materials," says Dr. Stefan Neufeind, head of Technical Marketing at the Liquid Purification Technologies business unit at LANXESS.

Mass balancing - transparent and certified

Renewable or waste-based raw materials are allocated to the corresponding quantities of sustainable products using the mass balancing method. To manufacture mass-balanced products, raw materials or precursors that are demonstrably sustainable in origin

LANXESS AG

Contact: Ilona Kawan Corporate Communications Spokesperson, Trade & Technical Press 50569 Köln Germany

Phone: +49 221 8885-1684 ilona.kawan@lanxess.com

Page 2 of 4

News Release

LANXESS Energizing Chemistry

are deployed and allocated to selected products using a special accounting method. This allows renewable raw materials to be integrated in existing production and supply chains.

The production plant for the sustainably produced resins in Leverkusen and the mass-balanced products are independently certified beforehand. In the case of the ion exchange resins, certification according to ISCC PLUS (International Sustainability & Carbon Certification) demonstrates that the criteria for reliable balancing are met and correctly applied. Customers can therefore rest assured that the quantity of sustainable resins offered corresponds only to the equivalent volume of sustainable raw materials used.

Sustainable water treatment both in the home and commercially

An important area of application for WAC resins is cartridges for water filters, which are used mainly for creating partially softened water in the preparation of, for example, hot drinks such as coffee and tea. Filter systems like these are used both in the home and commercially.

The ion exchange resin accounts for by far the biggest proportion of the mass of these cartridges. The high level of sustainability of the Scopeblue resins therefore has a major impact on the sustainability performance of consumer-oriented end products such as the aforementioned cartridges. "The new exchange resins help our customers to achieve their own sustainability targets. In addition, this enhanced sustainability can be leveraged as a competitive advantage or advertised as added value," says Neufeind.

LANXESS is planning to have further resins certified to ISCC PLUS and included in the Scopeblue/Eco product portfolio.

You can find more detailed information about products from Liquid Purification Technologies on the website at

LANXESS AG

Contact: Ilona Kawan Corporate Communications Spokesperson, Trade & Technical Press 50569 Köln Germany

Phone: +49 221 8885-1684 ilona.kawan@lanxess.com

Page 3 of 4

News Release



https://lanxess.com/en/Products-and-Brands/Brands/Lewatit.

You can also find more detailed information specially on the sustainable ion exchange resins in the brochure entitled "Sustainably produced ion exchangers – small, climate-friendly resin beads."

LANXESS is a leading specialty chemicals company with sales of EUR 6.1 billion in 2021. The company currently has about 13,200 employees in 33 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives and consumer protection products. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

Forward-Looking Statements

This company release contains forward-looking statements, including assumptions, opinions, expectations and views of the company or cited from third-party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of LANXESS AG to differ materially from the estimations expressed or implied herein. LANXESS AG does not guarantee that the assumptions underlying such forward-looking statements are free from errors, nor does it accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecast developments. No representation or warranty (expressed or implied) is made as to, and no reliance should be placed on, any information, estimates, targets and opinions contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and accordingly, no representative of LANXESS AG or any of its affiliated companies or any of such person's officers, directors or employees accepts any liability whatsoever arising directly or indirectly from the use of this document.

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.

You can find further information concerning LANXESS chemistry at <u>http://lanxess.com/en/Media/Stories</u>.

Follow us on Twitter, Facebook, LinkedIn and YouTube:

http://www.twitter.com/LANXESS http://www.facebook.com/LANXESS http://www.linkedin.com/company/lanxess http://www.youtube.com/lanxess

LANXESS AG

Contact: Ilona Kawan Corporate Communications Spokesperson, Trade & Technical Press 50569 Köln Germany

Phone: +49 221 8885-1684 ilona.kawan@lanxess.com

Page 4 of 4