

News Release

P368/22e
October 04, 2022

BASF completes E15x series with new hydrogenation catalysts increasing efficiency and performance

- **New sulfur-resistant E 15x S catalyst family optimizes processing of contaminated feedstocks**
- **Novel low-density E 15x L catalyst family minimizes precious metal loading**

BASF completes its well-established selective hydrogenation catalyst *E 15x* series with two innovative product lines. The new sulfur resistant *E 15x S* catalyst family aims at facilitating the processing of contaminated feedstocks, enabling reliable process operation and thereby increasing the flexibility of producers to use low-quality feedstocks containing higher amounts of impurities. *E 153 S ECU 1/8"* is now installed in a world scale PyGas 1st stage unit, proving its outstanding activity and outperforming the competitor incumbent catalyst.

On the other side of the spectrum, BASF finalized the in-house development of a new low-density carrier, serving as a versatile platform for selective hydrogenation applications. The new *E 15x L* catalyst family is currently BASF's most cost-efficient solution for hydrogenation units. *E 15x L* minimizes the amount of precious metal needed for a hydrogenation catalyst, without compromising catalyst activity. Dedicated carrier design and precious metal coating techniques enable a significant hydrogenation activity boost by high precious metal dispersion. Detailed pilot studies proved reliable operation and significantly outperformed competitor low-density solutions in a direct comparison.

“With the new catalyst families *E 15x S* and *E 15x L* we provide two additional solutions for our customer`s specific process needs and optimize the use of precious metal” said Detlef Ruff, Senior Vice President Process Catalysts at BASF SE. “We are now able to offer customers a complete package of innovative solutions and are looking forward to discussing this in person during EPCA.”

About BASF’s Catalysts Division

BASF’s Catalysts division is the world’s leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF’s Catalysts division develops unique, proprietary solutions that drive customer success. Further information on BASF’s Catalysts division is available on the Internet at www.catalysts.basf.com.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. Around 111.000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €78.6 billion in 2021. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at www.basf.com.