

Sorbead[®] CO₂ Dehydration

Technical information

Sorbead[®] temperature swing adsorption technology is the ideal solution for the dehydration of acid gases, including CO₂ off-gas from power plants, refineries, and natural gas plants. Dehydration of CO₂ allows for pipeline transportation, downstream storage or utilization and contributes to the overall reduction of carbon emissions from the plant.

BASF has decades of experience designing Sorbead[®] units for CO₂ dehydration and provides professional technical service. Sorbead[®] adsorption technology is an alternative solution that provides benefits which cannot be realized with standard glycol technology.

- Quick start-up/shutdown, Immediate on-spec outlet gas
- Ease of operation, limited operator attention over long lifetime
- Environment friendly, no additional chemicals or emissions, clean operations
- Ability to go lower than 10 ppmv

For carbon emitters who target to become carbon neutral in the near future, Sorbead[®] CO₂ dehydration allows for CCS and CCU in a simple and environmentally friendly way and provides a reliable solution based on decades of experience.



3 reasons to utilize Sorbead[®] for CO₂ Dehydration



Acid resistant



Low heat of adsorption, lower regeneration temperature



Stable to water and liquid hydrocarbon carry-over



We create chemistry

Americas

BASF Corporation

Phone: +1-732-205-5000

Email: catalysts-americas@basf.com



Asia Pacific

BASF (China) Company Limited

Phone: +86-21-2039-1311

Email: catalysts-asia@basf.com



Europe, Middle East, Africa

BASF Services Europe GmbH

Phone: +49-30-2005-5000

Email: catalysts-europe@basf.com

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The division 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.

BASF – We create chemistry

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required.

© 2023 BASF

www.catalysts.basf.com