

News release



Chemra GmbH at Aquatech Amsterdam

Regenerable and efficient ion exchange resin for PFAS removal in wastewater

CHEMRA offers a range of ion exchange resins and adsorbents for the removal of microcontaminants from industrial, groundwater and drinking water (certification in progress), including PFAS (per- and polyfluoroalkyl substances).

PFAS are powerful surfactants that repel not only water but also oil, grease and dirt. Their stability and surface activity make them valuable in various industrial and consumer products and are therefore present in many industrial effluents.

PFAS are persistent, highly mobile and some have significant toxicological effects. Therefore, it is essential to remove them from the environment.

Chemra GmbH is aware of the health and environmental problems associated with human exposure to PFAS. It has developed highly effective ion exchange resins to remove PFAS from liquid streams. These resins can be used alone or as a complementary technology to granular activated carbon.

Chemra's resins are the result of several years of research in cooperation with institutes and universities. The resins have a long lifetime and a high absorption capacity.

Chemra GmbH offers a two-step process for higher PFAS concentrations using a combination of regenerable and disposable IX resins. These resins have specific functionalities to provide high selectivity for different types of PFAS. Even short chain length PFAS are captured.

CHEMRA's solution offers long media life and reduced costs compared to competitive ion exchange resins. It provides a cost-effective and efficient solution for PFAS removal from industrial wastewater.

Typically, spent anion exchange resin is landfilled or incinerated at high temperatures, as is spent granular activated carbon. However, regenerant solutions containing PFAS contain water. Incineration requires high energy. Chemra offers novel solutions to reduce waste and costs.

Contact :

CHEMRA GmbH | Wissenschaftspark Trier | Max-Planck Str. 12 | D-54296 Trier | Germany

Eric Butin, e.butin@chemra.com Tel: +33 7 71 73 72 00

