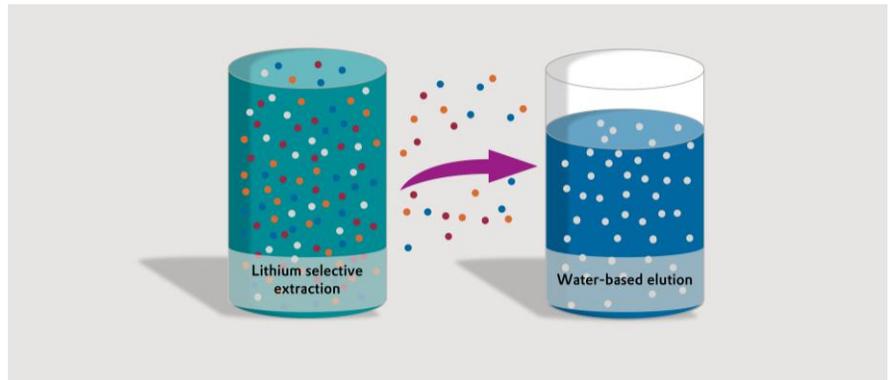


UNLOCKING LITHIUM with smarter Sorbents

The global shift to electric vehicles, energy storage systems, and portable devices is driving an increase in demand for lithium. While traditional lithium production methods have supplied the industry for decades, they fall short because of lengthy production cycles, resource-intensive processes, and vulnerabilities related to climate conditions. That's where Direct Lithium Extraction (DLE) steps in.

Evonik offers support for this greener path forward with LiOCEL® – our innovative line of sorbents designed specifically for DLE. This next-generation solution simplifies lithium recovery from brines while supporting low operating expenses and minimizing environmental impact.



THE ADVANTAGES OF LiOCEL® FOR LITHIUM EXTRACTION

» **Better capacities** because of a higher percentage of active material

» **Enables lithium recovery using only water** – no harsh chemicals required for regeneration or extraction

» **Eliminates weather dependency** common in evaporation ponds

» **Customizable sorbent sizes and shapes** so that the material can be a drop-in solution for a variety of systems

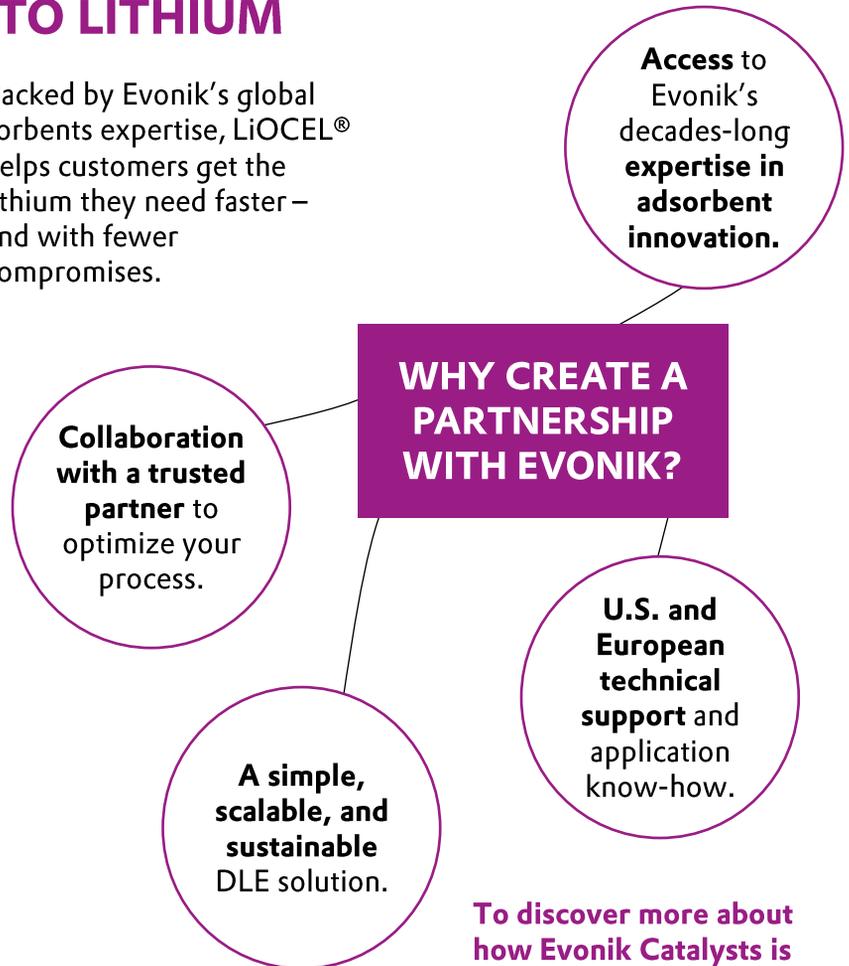
» **North American and European-based** adsorbent manufacturing capabilities

A SMARTER PATH TO LITHIUM

With a simple two-step process – intercalation and water-based elution – LiOCEL® streamlines lithium recovery across a variety of brine sources. The sorbent’s Layered Double Hydroxide (LDH) structure offers exceptional lithium selectivity while maintaining high capacity and stability under demanding operating conditions.

LiOCEL® has demonstrated outstanding performance in high Total Dissolved Solid (TDS) environments at ambient temperatures as well as elevated temperatures. With no need for acid or base regeneration, the process is safer, more sustainable, and easier to integrate into existing DLE systems.

Backed by Evonik’s global sorbents expertise, LiOCEL® helps customers get the lithium they need faster – and with fewer compromises.



To discover more about how Evonik Catalysts is driving a broad green agenda, [click here](#).

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice. LiOCEL® is a registered trademarks of Evonik Industries or its subsidiaries.

Evonik Operations GmbH
Rodenbacher Chaussee 4
63457 Hanau
Germany

catalysts@evonik.com
evonik.com/catalysts