

Product Information

DYNOCEL® 680

Dynocel 680 is a hybrid adsorbent that removes polar and acid gas contaminants to non-detectable levels in ethylene, propylene and C4 and higher olefinic process streams.

PRODUCT DESCRIPTION

Dynocel 680 is a co-formed zeolite and activated alumina adsorbent for the removal of polar and acid gas contaminants from vapor or liquid phase olefinic hydrocarbon streams. Dynocel 680 is particularly useful for the removal of water, alcohols, ammonia, ethers, ketones and hydrogen sulfide, carbon dioxide and carbonyl sulfide to non-detectable levels. The homogenous distribution of zeolite and activated alumina in Dynocel 680 assures profitable and reliable operations. On-spec products, uniform and predictable contaminant removal while exhibiting low reactivity are key benefits of using Dynocel 680 for your purification application. Additionally, Dynocel 680 does not require a pre-load step which improves safety concerns and provides significant cost savings since no olefin is required during the adsorbent regeneration process.

Typical Properties

Property	Unit	Value
Bulk Density	kg/m ³	769
Particle Size 1.5-3.0 mm	in	1/16-1/8
Side Crush Strength		13.5 kg/mm

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

Dynocel 680 is a proven hybrid adsorbent for the removal of polar compounds such as water, alcohols, ammonia, ethers, ketones and mercaptans AND hydrogen sulfide, carbon dioxide and carbonyl sulfide to non-detectable levels from ethylene, propylene, isobutylene, 1-octene (co-monomer) and other olefinic process streams.

BENEFITS & ADVANTAGES

Dynocel 680 has a unique and optimized formulation which allows the removal of polar compounds such as water, alcohols, ammonia, ethers, ketones and mercaptans AND hydrogen sulfide, carbon dioxide and carbonyl sulfide to non-detectable levels from ethylene, propylene and other olefinic process streams. Dynocel 680 does not require a pre-load step and exhibits no reactivity with olefins. Reliability is improved since no pre-load step is required. Product quality and on-stream time is assured since Dynocel 680 does not react with the process stream to form oligomers and other undesirable by-products.

PACKAGING

- 2000-lb (907.2-kg) supersacks
- Alternative packaging available.

STORAGE

The material should be stored in its original container and in a dry, covered location protected from the ambient environment.

SHELF LIFE

5 years in original packaging stored in a dry, covered location

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

Catalysts
Rodenbacher Chaussee 4
63457 Hanau
Germany
Phone +49 6181 59-13399
Fax +49 6181 59-2699
catalysts@evonik.com
evonik.click/catalysts