

## Product Information

# DYNOCEL® 900

Granular alumina (aluminum oxide)

## CAS NUMBER

1344-28-1

## PRODUCT DESCRIPTION

A granular activated alumina (aluminum oxide)

### Typical Properties

Property	Unit	Value
Bulk Density	lb /ft <sup>3</sup>	~40
Chemical Name		Granular Alumina Aluminum Oxide
Loss on Ignition, max. Net (250 – 1,000 °C)	wt%	7.5
Particle Size 20x50 mesh		300-850 µm
Surface Area	m <sup>2</sup> /g	300
Surface Area	m <sup>2</sup> /g	300

The data represents typical values (no product specification)

## TYPICAL APPLICATIONS

Adsorbent

### Product Composition

Product Composition	Unit	Value
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) Content Purity Assay (on a volatile free basis)	wt%	99-100
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) Content, max. XRF	wt%	0.014
Sodium Oxide (Na <sub>2</sub> O) Content, max. XRF	wt%	0.6

The data represents typical values (no product specification)

### Product Composition

Product Composition	Unit	Value
Silicon Dioxide (SiO <sub>2</sub> ) Content XRF	wt%	0-0.01

The data represents typical values (no product specification)

## BENEFITS & ADVANTAGES

High porosity improves diffusion rates while high surface area

provides enhanced capacity.

## PACKAGING

1,800 lbs (816.5 kg) supersacks

250 lbs (113.4 kg) steel drums

## STORAGE

The material is stored in its original containers/packaging in a dry, covered location protected

from the ambient environment

- The material is protected from direct exposure to sun-light and rain (prolonged exposure to direct sunlight may degrade the packaging)
- The material is not subjected to temperatures exceeding 450°F/230°C while in storage
- The material is stored elevated off the ground to ensure that there is no exposure to liquid

water

- Once the material is loaded into the vessel, a thorough nitrogen purge is recommended to remove excessive free moisture

- Desiccant products intended for regenerative service will require a complete thermal

regeneration cycle (in TSA service) or several pressure swing cycles (in PSA service) before full

activity is restored

## SHELF LIFE

tion

5 years in original packaging stored in a dry, covered loca-

### 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](mailto:catalysts@evonik.com)  
[evonik.click/catalysts](https://evonik.click/catalysts)