

# SODASORB® SODASORB® LF

CARBON DIOXIDE ABSORBENT  
MEDICAL GRADE



**1 TABLE OF CONTENTS  
PAGE 2**

**2 SODASORB® & SODASORB® LF  
CARBON DIOXIDE ABSORBENT  
PAGE 3**

- A LEGACY OF TRUSTED PERFORMANCE
- PRODUCT TYPE

**3.1 SODASORB® LF  
CARBON DIOXIDE ABSORBENT  
PAGE 4**

- SODASORB® LF
- SAFETY YOU CAN SEE, RELIABILITY YOU CAN TRUST
- GREATER SAFETY, BETTER OUTCOMES
- BETTER FOR THE ENVIRONMENT
- PROVEN PERFORMANCE
- SODASORB® LF PRODUCT RANGE

**3.2 SODASORB®  
CARBON DIOXIDE ABSORBENT  
PAGE 6**

- SODASORB®
- SUPERIOR ABSORPTION PERFORMANCE
- SODASORB® PRODUCT RANGE

**4 COLOR INDICATOR  
PAGE 8**

- EFFICIENCY COUNTS

**5 COMPATIBILITY GUIDE  
PAGE 10**



## SODASORB® & SODASORB® LF CARBON DIOXIDE ABSORBENT

Sodasorb® medical grade carbon dioxide absorbent is a safe, cost efficient, reliable soda lime for use in anesthesia breathing circuits. Available as Sodasorb® or Sodasorb® LF to suit a range of clinical requirements, Sodasorb® is a high activity absorbent with excellent measured CO<sub>2</sub> removal capacity.

### A LEGACY OF TRUSTED PERFORMANCE

For nearly 90 years, clinicians all over the world have trusted Sodasorb® carbon dioxide absorbent for its dependable performance. Manufactured by Molecular Products, a world leader in the design of life critical devices and soda lime production, Sodasorb® absorbents meet the requirements of the United States Pharmacopeia (USP).



### PRODUCT TYPE

Sodasorb® is a pelletized compound consisting primarily of hydrated lime Ca(OH)<sub>2</sub> blended with a small quantity of sodium hydroxide (NaOH).

COMPOSITION OF SODASORB®	
PROPERTY	TYPICAL VALUE
USP CO <sub>2</sub> absorption	23%
USP hardness	92-95%
Particle size (4-8 mesh, pelletized granules, white, L/Kg)	Pelletized granular mixture
Appearance	Pelletized granular mixture
Color	White to off-white
CO <sub>2</sub> absorption	140 L/kg

## SODASORB® LF CARBON DIOXIDE ABSORBENT

### SODASORB® LF

Sodasorb® LF eliminates the potential dangers associated with low flow conditions such as Compound A, carbon monoxide, heat and desiccation. Its patented formulation curbs the degradation of anesthetic gases while retaining superior efficiency when compared to conventional absorbents.

Some of the reason clinicians rely on Sodasorb® LF include:

- Permanent color change
- Elimination of Compound A
- Low pH for easy and safer disposal

### SAFETY YOU CAN SEE, RELIABILITY YOU CAN TRUST

Once exhausted or if desiccated, Sodasorb® LF absorbent changes color from white to violet. This color change is permanent and unique to Sodasorb® LF, unlike traditional carbon dioxide absorbents.

### GREATER SAFETY, BETTER OUTCOMES

Desiccation impairs CO<sub>2</sub> absorption and can lead to extreme heat, resulting in the production of carbon monoxide. Sodasorb® LF's formulation means it will not heat to extreme temperatures, even if it desiccates, eliminating the production of carbon monoxide and eliminating any risks associated with volatile anesthetics.

### BETTER FOR THE ENVIRONMENT

Sodasorb® LF has a lower pH than conventional absorbents. For this reason, once the soda lime is exhausted, it is easier to dispose of as it converts to naturally occurring minerals. Unlike most absorbents, Sodasorb® LF reduces potential harm to the environment and ensures there is no risk of prolonged damage to animal or plant life.

### PROVEN PERFORMANCE

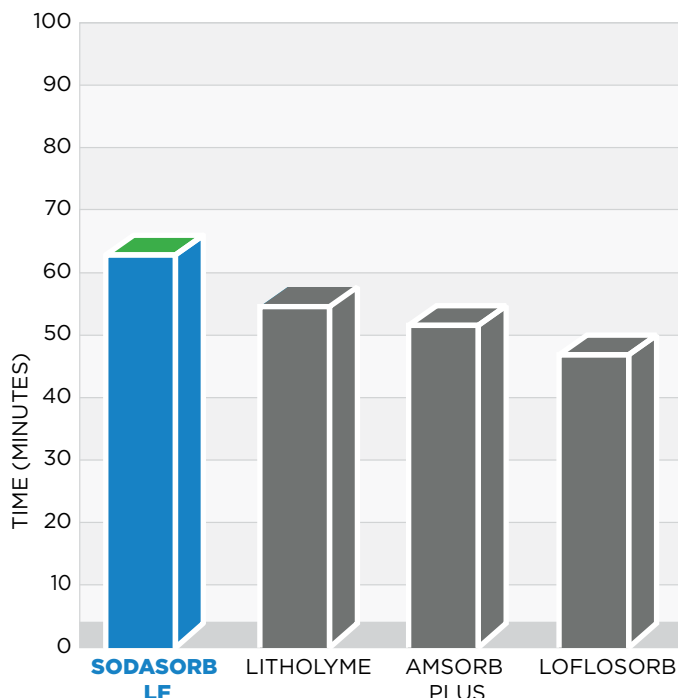
When it comes to soda lime, efficiency counts. And by efficiency, we mean the time it takes for the granules to breakthrough and stop absorbing CO<sub>2</sub>.

A recent independent study shows that Sodasorb® LF is more efficient than Intersurgical and Armstrong Medical soda lime.

Molecular Products' Sodasorb® LF lasts 32% longer than Intersurgical's LoFloSorb™ and 18% more than Armstrong Medical's AMSORB® Plus. Meaning better value for money and fewer changeovers during surgeries.

#### SODASORB® LF CO<sub>2</sub> BREAKTHROUGH

(Time per 100 mL of product for F<sub>I</sub>CO<sub>2</sub> to reach 0.5%)



Source: In vitro efficiency of 16 different Ca(OH)<sub>2</sub> based CO<sub>2</sub> absorbent brands (2019). Yan Jiang, Mohammed K Bashraheel, Hongliang Liu, Jan Poelaert, Marc Van de Velde, Geert Vandenbroucke, Rik Carette, Andre M De Wolf, Jan F A Hendrickx



## SODASORB® LF PRODUCT RANGE



### SODASORB® LF PRODUCT RANGE

CONTAINER	UNITS PER BOX	MACHINE COMPATIBILITY
1 ARIA	6	<ul style="list-style-type: none"> <li>• GE Healthcare Aisys®, Avance®, Aespire®, ADU™</li> </ul>
2 JUG	2	<ul style="list-style-type: none"> <li>• Refillable absorbers</li> </ul>
3 CANISTER PAK	12	<ul style="list-style-type: none"> <li>• Refillable absorbers</li> </ul>
4 PAIL	1	<ul style="list-style-type: none"> <li>• Refillable absorbers</li> </ul>
5 PRE PAK	12	<ul style="list-style-type: none"> <li>• GE Healthcare Aestiva®, Excel®, Modulus™</li> <li>• Dräger Narkomed® 2B, Narkomed® 4, Narkomed® GS, Narkomed® Mobile</li> <li>• Mindray® A5, A7</li> <li>• Penlon® A100™, SP100™, SP200™</li> <li>• Spacelabs® Focus™, Frontline™, Sirius™</li> <li>• Maquet® KION®-i</li> <li>• Other (depends on manufacturer)</li> </ul>

## SODASORB® CARBON DIOXIDE ABSORBENT

### SODASORB®

Sodasorb® is a high value soda lime, offering superior performance and reasonable cost. Suitable for use in low flow anesthesia breathing circuits, Sodasorb® offers a white to violet color change providing a clear visible indication of when the product is exhausted.

Some of the reason clinicians choose Sodasorb® include:

- Exceptional absorption capacity, as proven in third party testing
- Medical grade soda lime, designed for clinical use
- Trusted by anesthesiologists for nearly 90 years
- Manufacturing processes minimize dust and enable consistent bed packing to provide an even gas flow through the absorber



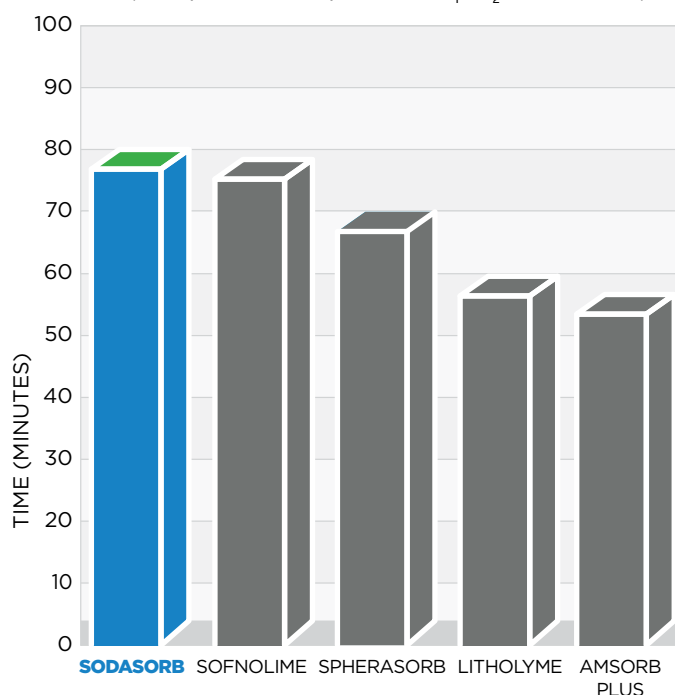
### SUPERIOR ABSORPTION PERFORMANCE

Studies show that Sodasorb® has superior absorption properties when compared to other leading brands.

Sodasorb® is 39% more efficient than Armstrong Medical's AMSORB® Plus and 11% more than Intersurgical's Spherasorb™. Providing value for money and meaning less soda lime change outs during surgeries.

#### SODASORB® CO<sub>2</sub> BREAKTHROUGH

(Time per 100 mL of product for F<sub>I</sub>CO<sub>2</sub> to reach 0.5%)



Source: In vitro efficiency of 16 different Ca(OH)<sub>2</sub> based CO<sub>2</sub> absorbent brands (2019). Yan Jiang, Mohammed K Bashraheel, Hongliang Liu, Jan Poelaert, Marc Van de Velde, Geert Vandenbroucke, Rik Carette, Andre M De Wolf, Jan F A Hendrickx

## SODASORB® PRODUCT RANGE



### SODASORB® PRODUCT RANGE

CONTAINER	UNITS PER BOX	MACHINE COMPATIBILITY
1 JUG	2	<ul style="list-style-type: none"> <li>• Refillable absorbers</li> </ul>
2 PRE PAK	12	<ul style="list-style-type: none"> <li>• GE Healthcare Aestiva®, Excel®, Modulus™</li> <li>• Dräger Narkomed® 2B, Narkomed® 4, Narkomed® GS, Narkomed® Mobile</li> <li>• Mindray® A5, A7</li> <li>• Penlon® A100™, SP100™, SP200™</li> <li>• Spacelabs® Focus™, Frontline™, Sirius™</li> <li>• Maquet® KION®-i</li> <li>• Other (depends on manufacturer)</li> </ul>
3 ARIA	6	<ul style="list-style-type: none"> <li>• GE Healthcare Aisys®, Avance®, Aespire®, ADU™</li> </ul>
4 PAIL	1	<ul style="list-style-type: none"> <li>• Refillable absorbers</li> </ul>
5 CANISTER PAK	12	<ul style="list-style-type: none"> <li>• Refillable absorbers</li> </ul>

### WHITE TO VIOLET

During use the white granules will start to turn violet in color and will deepen in intensity to indicate exhaustion of Sodasorb® CO<sub>2</sub> absorbent.

The intensity of color change may vary from one procedure to another. The appearance of a color change confirms the activity of the material and indicates the progress of the carbon dioxide absorption. This allows any severe uneven gas flow (channeling) within the canister to be identified.

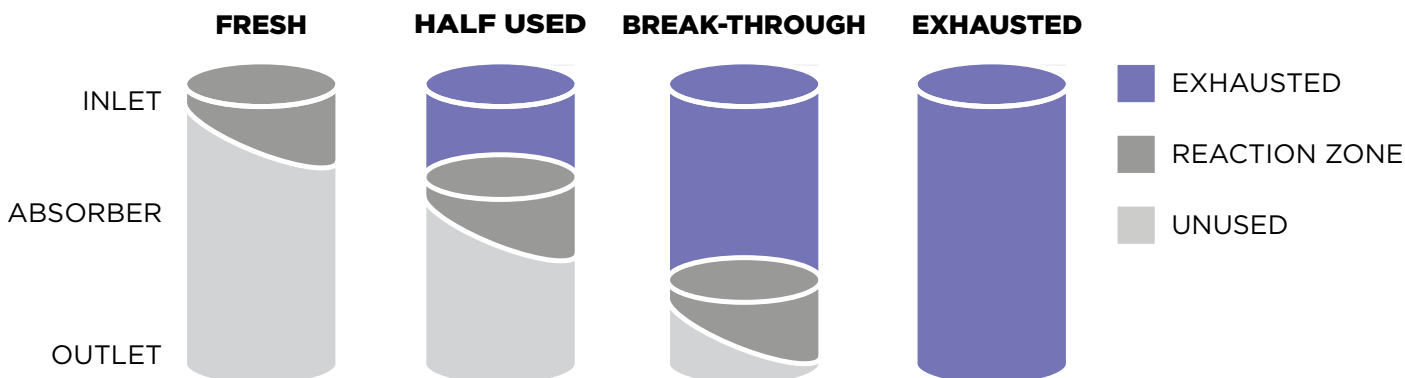
Suitable monitoring of inspired carbon dioxide is required to assess when to replace the soda lime as it is the trailing edge of the reaction zone that changes color, not the leading edge. A slowly increasing carbon dioxide concentration at the outlet will usually begin to occur when the color change has penetrated to around half the depth of the cartridge.

### PERMANENT COLOR CHANGE

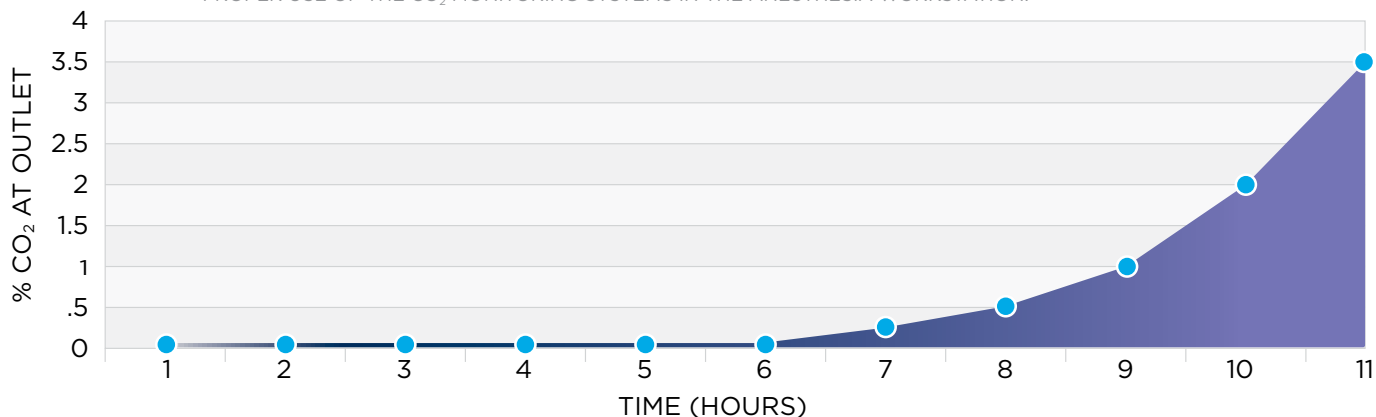
Sodasorb® LF has a permanent color change. Meaning that the soda lime will not revert back from violet to white over time, providing a visible indication that the media is exhausted and should not be reused.

This is a unique feature of Sodasorb® LF. Providing clinicians with an advantage over other leading soda lime brands by making it both simple to ensure that this single use product is not reused and monitor usage.

### ABSORBENT EFFICIENCY



THE VISUAL APPROXIMATION OF THE COLOR CHANGE IS NOT A SUBSTITUTE FOR PROPER USE OF THE CO<sub>2</sub> MONITORING SYSTEMS IN THE ANESTHESIA WORKSTATION.







## DRÄGER® COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
Perseus® with refillable absorber	✓	—	—
Zeus® with refillable absorber	✓	—	—
Primus®/Apollo® with refillable absorber	✓	—	—
Fabius Tiro® with refillable absorber	✓	—	—
Fabius® GS with refillable absorber	✓	—	—
Fabius® CE with refillable absorber	✓	—	—
Julian® with refillable absorber	✓	—	—
Cicero™ with refillable absorber	✓	—	—
Cato® with refillable absorber	✓	—	—
Narkomed® 2B	✓	✓	—
Narkomed® 4	✓	✓	—
Narkomed® GS	✓	✓	—
Narkomed® Mobile	✓	✓	—
Other	✓	—	—

## GE HEALTHCARE® COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
Aisys® using the pre-filled Multi absorber	—	—	✓
Aisys® using the refillable Multi absorber	✓	—	✓
Avance® using the pre-filled Multi absorber	—	—	✓
Avance® using the refillable Multi absorber	✓	—	✓
Aespire® using the pre-filled Multi absorber	—	—	✓
Aespire® using the refillable Multi absorber	✓	—	✓
ADU™ using the pre-filled Compact absorber	—	—	✓
ADU™ using the refillable Compact absorber	✓	—	✓
Aestiva®	✓	✓	—
Excel®	✓	✓	—
Modulus™	✓	✓	—
Other	✓	—	—

Perseus, Zeus, Primus, Apollo, Fabius Tiro, Fabius, Julian and Cato are registered trademarks of Dräger Medical GmbH. • Narkomed is a registered trademark of Dräger Medical, Inc. • Cicero and CLIC are trademarks of Dräger Medical GmbH. • Aisys, Avance, Aespire, Aestiva and Excel are registered trademarks of Datex-Ohmeda, Inc. • Modulus is a trademark of Datex-Ohmeda, Inc. • ADU is a trademark of Datex-Ohmeda, Inc. • Datex-Ohmeda, Inc. is a General Electric company. • GE Healthcare is a registered trademark of General Electric Company.

## MAQUET® (FORMERLY SIEMENS®) COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
KION® -i	✓	✓	—
FLOW® -i with refillable absorber	✓	—	—
Other	CMG*	—	—

## SPACELABS® COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
ARKON®	CMG*	—	—
Focus™	✓	✓	—
Frontline™	✓	✓	—
Sirius™	✓	✓	—
Other	✓	CMG*	—

## PENLON® COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
A100™	✓	✓	—
SP100™	✓	✓	—
SP200™	✓	✓	—
Other	✓	CMG*	—

## MINDRAY® COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
A5	✓	✓	—
A7	✓	✓	—

## OTHER MANUFACTURERS COMPATIBILITY GUIDE

MACHINE	JUG, PAIL & CANISTER PAK	PRE PAK	ARIA
Other manufacturers	CMG*	CMG*	CMG*

CMG\*: Check Manufacturers' Guide

Maquet is a registered trademark of Maquet GmbH • Siemens is a registered trademark of Siemens Aktiengesellschaft. • KION is a registered trademark of Maquet Critical Care AB. • FLOW is a trademark of Maquet Critical Care AB. • Spacelabs and ARKON are registered trademarks of Spacelabs Healthcare, LLC. • Focus, Frontline and Sirius are trademarks of Spacelabs Healthcare, LLC. • Penlon is a registered trademark of Penlon Limited. • A100, SP100 and SP200 are trademarks of Penlon Limited. • Mindray is a registered trademark of Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

**USA**

SALESUSA@MOLPROD.COM

+1 (303) 666 4400

**UK & EUROPE**

SALES@MOLPROD.COM

+44 (0)1279 445111

**ASIA**

SALESASIA@MOLPROD.COM

+86 51 085 879 137

**INDIA**

SALESINDIA@MOLPROD.COM

+91 887 977 5309



Scan for Sodasorb®  
Safety Data Sheet  
(SDS)



Scan for Sodasorb® LF  
Safety Data Sheet  
(SDS)

The data contained herein are intended as reference only. Please contact Molecular Products for assistance and recommendation on specifications for these products. Except as otherwise stated, all marks used in this document are trademarks and/or registered trademarks of Molecular Products. All rights reserved.