Eclipse™

CO_2 ADSORBENT

When it comes to patient safety, there can be no compromise.

Eliminate all the issues with Sodalime.

- Proven Chemistry
- Proven Products
- Proven Company

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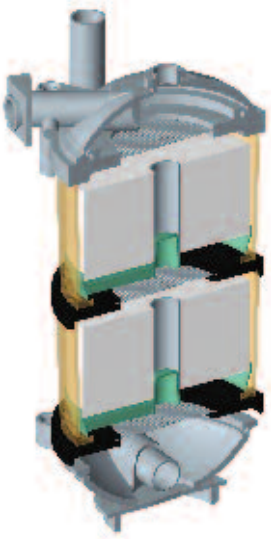
Eclipse™ CO_2 ADSORBENT

Eclipse™ CO_2 Adsorbent is a solid lithium-based cartridge that replaces sodalime and resolves all associated issues.



Issues with sodalime adsorbent:	Eclipse™ CO_2 Adsorbent patented technology[1] resolves these issues:
Toxic by-product generation (Compound A & Carbon Monoxide)	reduces toxic by-product generation confirming previous studies[2,3].
Desiccation	desiccates[4] 3 times less than sodalime, even when fully desiccated produces 8 times less Compound A than fresh Medisorb®.
Duration consistency	is 10 times more consistent in duration than Amsorb® Plus.
Dusting	eliminates dusting and airway irritation associated with granular lithium hydroxide.
Calcium adsorbs anesthetic	does not adsorb anesthetic, allowing for the first time predictable delivery to the patient.
Disposal	returned to the manufacturer for recycling

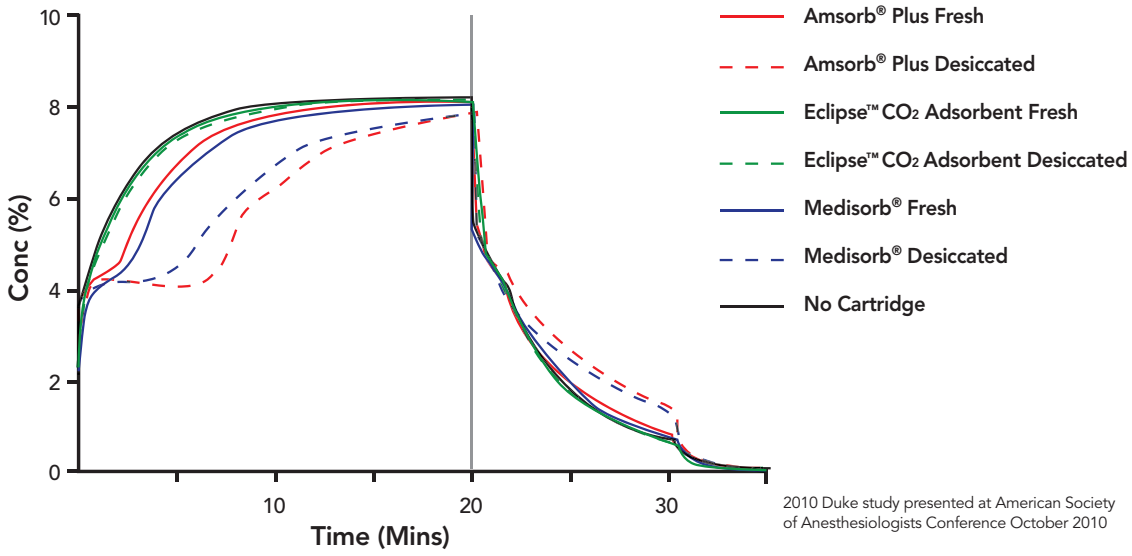
The Only Recycled CO_2 Adsorbent

Eclipse™ CO_2 Adsorbent cartridges suitable for use in GE Healthcare, Dräger Medical, Spacelabs Healthcare and other anesthesia workstations.

Do you know how much anesthetic agent your sodalime adsorbs?

Eclipse™ CO_2 Adsorbent provides repeatable anesthetic concentration and faster circuit equilibrium, while reducing the amount of anesthetic required, resulting in both clinical and economic benefits.

Wash-in / Wash-Out Curves of Sevoflurane



2010 Duke study presented at American Society of Anesthesiologists Conference October 2010

Eclipse™ CO_2 Adsorbent adsorbs the least volatile anesthetic agent resulting in target anesthetic concentration being achieved quicker and more consistently.

- Faster wash-in of volatile agent
- Faster wash-out of volatile agent
- Optimum delivery of anesthetic irrespective of hydration state
- Desired anesthetic concentration reaching patient
- Direct anesthetic savings of 5-29% when compared to Amsorb® and Medisorb® Adsorbents under identical FGF (Fresh Gas Flow) and vaporizer settings

Eclipse™ CO_2 Adsorbent Lithium Formulation:

- Reduces toxic by-product generation allowing hospitals to safely consider low flow.
- Reacts at the same temperature as sodalime[5].

PROVEN INDUSTRIES


Military & Recreational Diving


Submarine


Mining


Personal Protective Equipment


First Responders

Proven Chemistry

Lithium adsorbent has been proven to reduce Carbon Monoxide and Compound A generation. Eclipse™ CO_2 Adsorbent utilizes lithium chemistry while maintaining safe reaction temperatures and eliminates chemical dusting.

Proven Products

Micropore products are specified in the world's most demanding life support applications and outperform sodalime adsorbents by every metric.

Proven Company

Micropore, Inc. is an ISO 9001 manufacturing company that produces advanced gas adsorbent systems for rebreathing, life support and industrial applications world-wide. Located in Elkton MD, Micropore, Inc is trusted to provide products of the highest quality and performance for these critical applications.

Micropore, Inc. CO_2 adsorbent is approved for use in both class I[6] and class II[7] medical devices.

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1. US Patent No. US7326280 & US7329307 **2.** Only Carbon Dioxide Absorbents Free of Both NaOH and KOH Do Not Generate Compound A during In Vitro Closed-system Sevoflurane Anesthesiology 2001; 95:750–5 © 2001 American Society of Anesthesiologists, Inc. Lippincott Williams & Wilkins, Inc. **3.** Ref: Absorbents differ enormously in their capacity to produce Compound A and Carbon Monoxide. Anesth Analg 2000;90:1428-35. Ref: Only Carbon Dioxide absorbents free of both NaOH and KOH do not generate Compound A during in vitro closed-system Sevoflurane. Anesthesiology 2001;95:750-5. **4.** Exposure to 10L/min flow of oxygen over 72hrs period resulted in a 2% loss in weight of Eclipse™ CO_2 Adsorbent compared to 7% or more with sodalime absorbents. **5.** Duke study results show the Eclipse™ CO_2 Adsorbent canister surface temperature equivalent to sodalime absorbents Source- abstracts presented at American Society of Anesthesiologists Conference October 2010. **6.** Divers Alert Network – Remote Emergency Medical Oxygen (REMO2™) System. **7.** Thornhill Research Inc. – MOVES™ - World's first integrated ventilator and oxygen concentrator life support system for medevac transportation.

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Eclipse™ CO_2 Adsorbent is a product of Micropore Incorporated.