



# AMSORB<sup>®</sup> Plus

*Supporting Sustainable Anaesthesia*

*AMSORB<sup>®</sup> Plus is a CO<sub>2</sub> absorbent free of strong alkali*



AMSORB<sup>®</sup> Plus is an Armstrong Medical Limited product.

[gehealthcare.co.uk/products/accessories-and-supplies](http://gehealthcare.co.uk/products/accessories-and-supplies)

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## The environmental impact of Anaesthesia



Inhalation anaesthetic gases contribute to climate change - accounting for **5% of NHS CO<sub>2</sub> emissions**<sup>1</sup>



**2% (590,000 ton)** of all UK industrial and commercial waste is generated by the NHS<sup>1</sup>

Each UK operating room generates between 52-78 kg of hazardous soda lime waste per year – equivalent to **166-249 ton in the UK**<sup>2</sup>

## AMSORB® Plus offers significant benefits to your department.



*AMSORB® Plus is better for the environment*



*AMSORB® Plus is safer and easier to use*



*AMSORB® Plus is cost effective*

## AMSORB® Plus can contribute to your hospital's sustainable anaesthesia strategy.

### Reduced Anaesthetic Gas Consumption

- With no strong alkali present, AMSORB® Plus enables safe, low and minimal flow anaesthesia, with reduced adsorption of anaesthetic vapour.

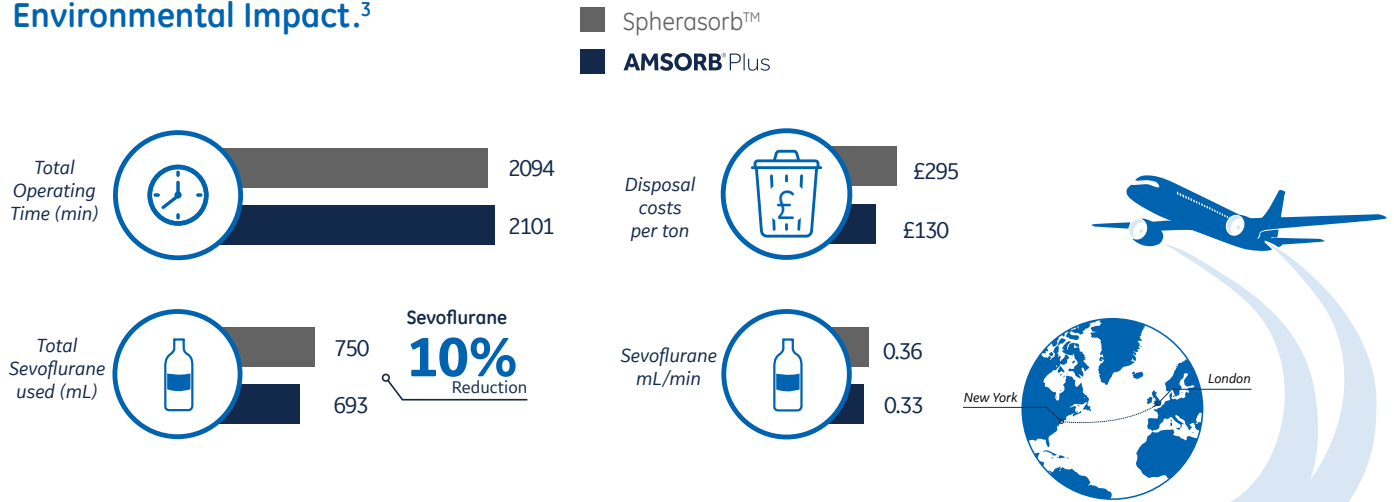
### Reduced Absorbent Waste

- The permanent colour change of AMSORB® Plus is an accurate visual indicator of granule exhaustion giving confidence to use AMSORB® Plus until FiCO<sub>2</sub> reaches 0.5 mmHg maximising length of use and reducing waste.
- Prefilled canisters are autofilled to ensure reduced intergranular space, maximising absorbent weight per canister and optimising gas flow with improved absorption efficiency.
- Prefilled canisters can be easily replaced mid procedure utilising absorption capacity until breakthrough and reducing waste associated with pre-emptive change.

### Non-Hazardous Waste

- As AMSORB® Plus is non caustic, it may be disposed of in domestic waste (in accordance with local waste management policy).
  - Desiccated Sodalime >pH12.5
  - Desiccated AMSORB® Plus <pH12.5
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## Implications of using AMSORB® Plus in clinical practice: Cost, Patient Safety and Environmental Impact.<sup>3</sup>

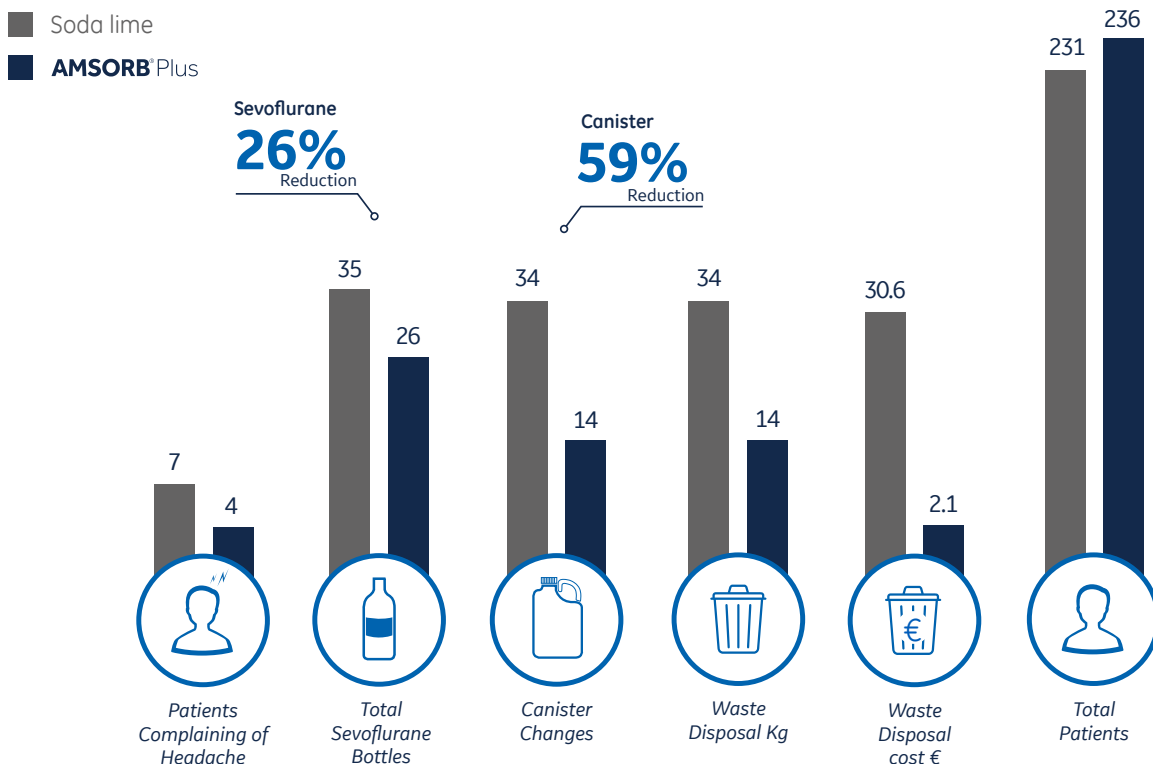


“Annual Sevoflurane saving for 25 theatres estimated to be 38,661 mL (154 bottles) equivalent to 25 flights from London to New York”

“There was clear evidence of product safety. A comprehensive literature search revealed no evidence of CO or compound A production.”

“Disposal cost’s were £130/ton for AMSORB® Plus and £295/ton for Spherasorb™.”

## The Cost Implications of Replacing Soda Lime with AMSORB® Plus in Clinical Practice.<sup>4</sup>





References:

<sup>1</sup> <https://anaesthetists.org/Home/Resources-publications/Environment/Our-environmental-work/Why-it-matters-facts-figures>.

<sup>2</sup> Estimate based on 1 kg/OR per week x 3200 OR's = 166,400kg, 1.5 kg/OR per week x 3200 OR's = 249,600kg.

<sup>3</sup> Jones A, Dobson A, Implications of using AMSORB® Plus in clinical practice: Cost, Patient Safety and Environmental Impact. Presented at the Royal Collage of Anaesthetists Winter Scientific Meeting.

<sup>4</sup> Mannion S, Ahmed O. The cost implications of replacing soda lime with Amsorb® in clinical practice. *European Journal of Anaesthesiology*. June 2011;28:P12-13.

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Manufactured by:  
Armstrong Medical Limited  
Wattstown Business Park,  
Newbridge Road  
Coleraine, BT52 1BS, Northern Ireland