



AMSORB[®] Plus

Supporting Sustainable Anaesthesia

AMSORB[®] Plus is the world's first CO₂ absorbent to be free of strong alkali

Creating Support for **Life**

armstrongmedical.net

The environmental impact of Anaesthesia



Inhalation anaesthetic gases contribute to climate change - accounting for **5% of NHS CO₂ emissions**¹



2% (590,000 ton) of all UK industrial and commercial waste is generated by the NHS¹

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

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.

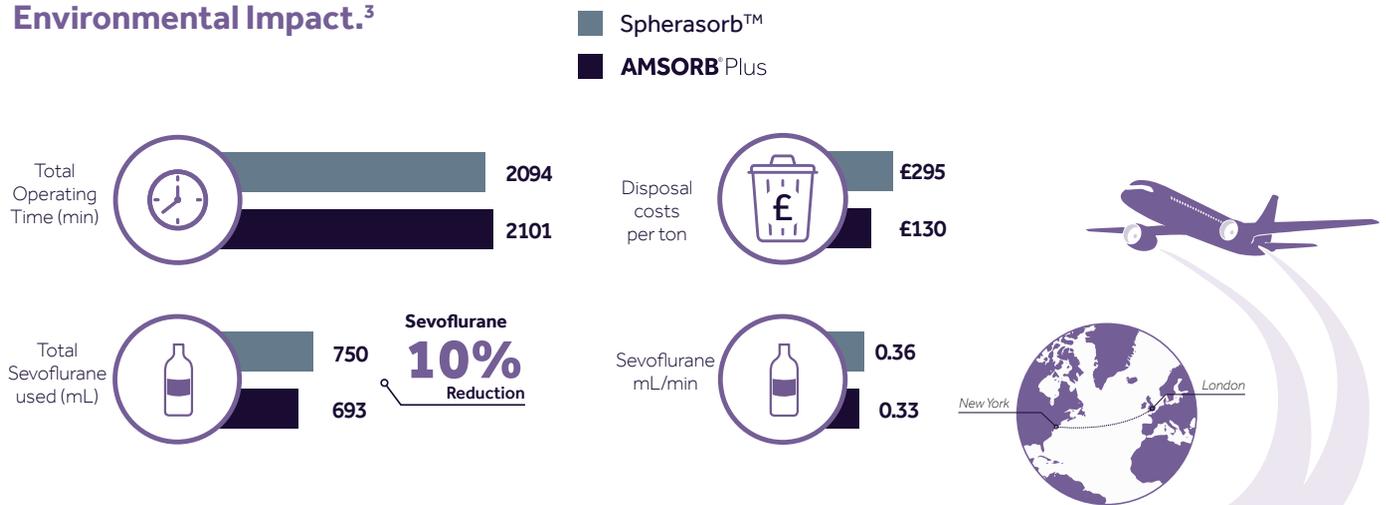
Reduced Absorbent Waste

- The permanent colour change of AMSORB® Plus is an accurate visual indicator of granule exhaustion giving confidence to use AMSORB® Plus until FiCO_2 reaches 0.5mmHg 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 $\text{pH} > 12.5$
 - Desiccated AMSORB® Plus $\text{pH} < 12.5$
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Implications of using AMSORB® Plus in clinical practice: Cost, Patient Safety and Environmental Impact.³

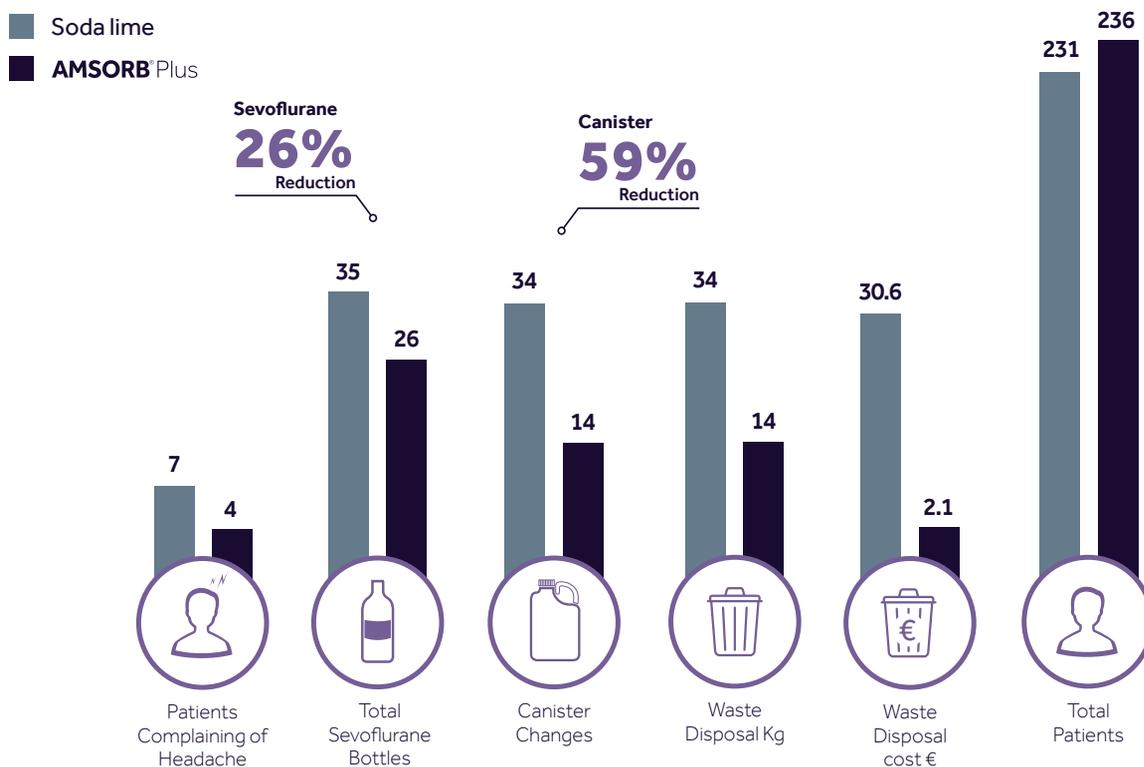


“Annual Sevoflurane saving for 25 theatres estimated to be 38,661mL (154 bottles) equivalent to 25 flights from London to New York”

“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.⁴





Single Site Manufacturing

Reduced carbon footprint from single site manufacturing



Green energy solar panels contribute to almost 10% of our electricity usage



Canister Injection Moulding



Absorbent Extrusion



Packing

Single Site Manufacturing

Boxes

Manufactured in Northern Ireland using recycled materials, no chlorine is used in the manufacturing process.

Recycled manufacturing waste is utilised as mushroom fertiliser.



Lime

References:

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

² 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.

³ 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.

⁴ 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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