

# How much antimony is added to solar glass

Source: <https://www.kalelabellium.eu/Mon-03-Apr-2017-6562.html>

Website: <https://www.kalelabellium.eu>

This PDF is generated from: <https://www.kalelabellium.eu/Mon-03-Apr-2017-6562.html>

Title: How much antimony is added to solar glass

Generated on: 2026-03-06 00:57:52

Copyright (C) 2026 KALELA SOLAR. All rights reserved.

For the latest updates and more information, visit our website: <https://www.kalelabellium.eu>

-----  
How much antimony is in solar glass?

World Health Organization (WHO): A limit of 5 ppb. California Environmental Protection Agency (CalEPA): A public health goal of 1 ppb for Antimony. Proportion of Antimony in solar glass is typically 0.2% to 0.3% (2 to 3 million ppb). Each PV module has a front glass weighing about 16 kg and thus an Antimony content of 32 to 48 grams.

How can the US reduce antimony levels in solar glass?

The U.S. could also implement a threshold for antimony levels in solar glass, gradually reducing the allowable amount over time. This would encourage manufacturers to phase out the use of antimony in their production processes and facilitate more straightforward recycling in U.S. facilities.

Can you recycle solar glass with antimony?

This makes recycling solar glass with antimony both costly and technically challenging. Transporting glass cullets (crushed glass ready for recycling) also presents a logistical challenge, as their low density makes transport costly and inefficient. What is the regulatory support for solar glass recycling?

Should PV module manufacturers be required to disclose antimony compounds?

To address these challenges, the ESIA Recommendation paper suggests that the European Union should consider mandating PV module manufacturers under the upcoming Ecodesign regulations to disclose the composition and manufacturing process of solar glass, including additives like antimony compounds.

Homerun's technical partners advise that the Company will produce solar glass that is 100% free of added antimony from the initiation of production. Equipment and furnace ...

Solar glass typically contains 0.25% antimony, and the front glass of each solar photovoltaic module weighs about 16 kilograms, so each module contains approximately 40 ...

Proportion of Antimony in solar glass is typically 0.2% to 0.3% (2 to 3 million ppb). Each PV module has a front glass weighing about 16 kg and thus an Antimony content of 32 to 48 grams.

# How much antimony is added to solar glass

Source: <https://www.kalelabellium.eu/Mon-03-Apr-2017-6562.html>

Website: <https://www.kalelabellium.eu>

The production of this significant amount of (77.1-178 Mt) glass annually will place considerable pressure on raw materials, such as antimony (Sb), which is essential for PV glass manufacturing.

While float glass is most common in solar panels, patterned glass also contains antimony, a compound that improves solar glass efficiency but raises environmental and health concerns ...

This study investigates the effects of the antimony content in solar glass on its optical properties and the associated environmental factors. Glass samples with high, low and ...

Solar glass can be either low-iron patterned glass or low-iron float glass. Both can be recycled if the quality is acceptable, but this depends on the glass composition and the end product to be ...

Homerun's technical partners advise that the Company will produce solar glass that is 100% free of added antimony from the ...

By controlling the temperature and utilizing hydrothermal processing within optimal ranges, they successfully extracted approximately 80% of antimony content from the glass ...

Given that glass constitutes a substantial portion of PV module weight, recycling glass proves environmentally beneficial by reducing CO<sub>2</sub> emissions and conserving energy. ...

Industry estimates suggest typical solar glass contains on the order of 0.2-0.3% antimony by weight; one analysis pegs it at about 0.25%, or roughly 40 grams of antimony in ...

Given that glass constitutes a substantial portion of PV module weight, recycling glass proves environmentally beneficial by reducing CO ...

Web: <https://www.kalelabellium.eu>

