



NSG Group...

**Creating a healthier,
cleaner, and safer world**

Pilkington **SaniTise™**

Antimicrobial glass for architectural applications

Pilkington **SaniTise™**

Pilkington **SaniTise™** is an online coated glass with a transparent photocatalytic coating that provides antimicrobial properties and activity against enveloped viruses when exposed to UV. The coating on glass retains its properties even when UV exposure ends, for up to 2 hours in tests, further reducing the risk of cross-infection.



Applications

- Schools and universities
- Hotels
- Office buildings
- Storefronts
- Hospitals
- Assisted living facilities
- Zoos
- Airports
- Libraries



Features and Benefits

- Durable pyrolytic coating;
- Can be toughened, laminated, bent and processed into insulating glass units;
- Compatible with harsh commercial grade cleaning products;
- Multiple tints/substrates available;
- Thickness available from 3.2 mm to 10 mm.

Pilkington SaniTise™ - technical performance

Glass product (IGU)	Light (%)			Solar radiant heat (%)				Total shading coefficient	U _g [W/m²K]
	Transmittance	Reflectance external	Reflectance internal	Direct transmittance	Reflectance	Absorptance	Total transmission		Argon 90%
Thermal insulation									
6 mm Pilkington Optitherm ™ S1A – 16 mm argon – 6 mm Pilkington SaniTise ™ Clear	70	21	21	41	35	24	45	0.52	1.0
6 mm Pilkington Optifloat ™ Clear – 16 mm argon – 4 mm Pilkington Optitherm ™ S3 T – 16 mm argon – 6 mm Pilkington SaniTise ™ Clear	69	22	22	45	27	28	52	0.59	0.9
Solar control									
6 mm Pilkington Suncool ™ 70/35 – 16 mm argon – 6 mm Pilkington SaniTise ™ Clear	66	19	22	32	36	32	35	0.40	1.0
6 mm Pilkington Suncool ™ 60/31 – 16 mm argon – 6 mm Pilkington SaniTise ™ Clear	56	14	23	27	34	39	30	0.35	1.0
6 mm Pilkington Suncool ™ 70/35 – 16 mm argon – 6 mm Pilkington Optifloat ™ Clear – 16 mm argon – 6 mm Pilkington SaniTise ™ Clear	60	23	26	29	38	33	33	0.37	0.8

The above performance data has been determined in accordance with EN 410 and EN 673.

Pilkington **SaniTise**™ coating on surface #4 in double glazing units and surface #6 in triple glazing units.

Pilkington **Suncool**™ coating on surface #2 in double and triple glazing units.

Pilkington **Optitherm**™ S1A coating on surface #2 when used as the outer pane of a double glazing unit.

Pilkington **Optitherm**™ S3 coating on surface #4 when used as the mid-pane of a triple glazing unit.

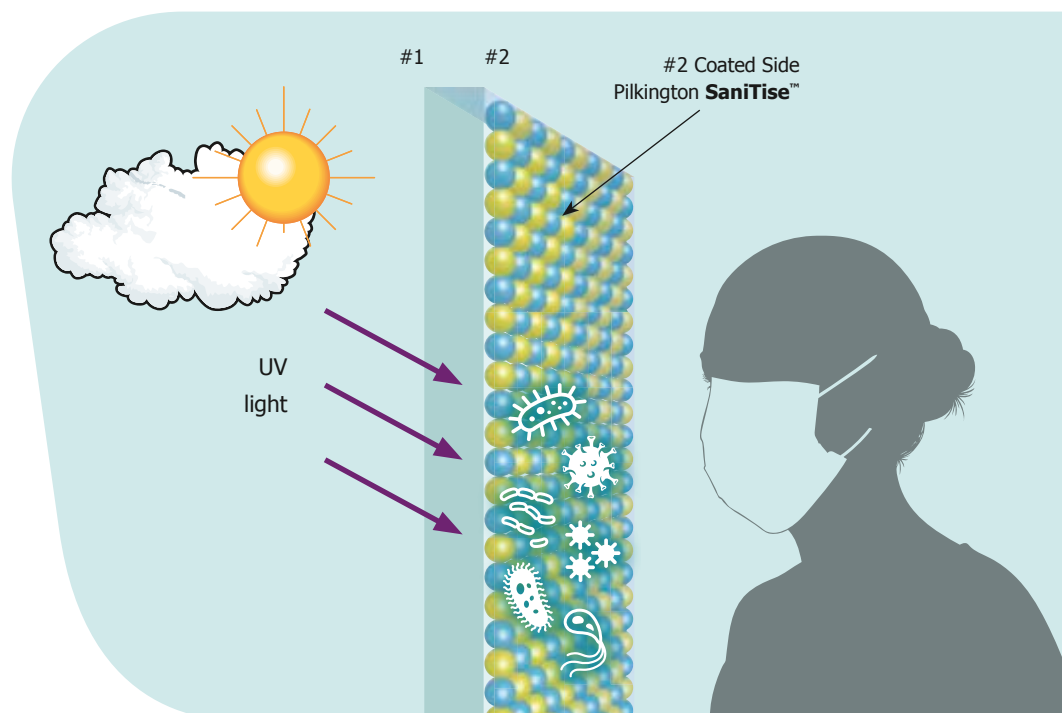
T refers to toughened glass.

How it works

The glass uses a TiO₂ based coating deposited directly onto the glass surface during its manufacturing process. When the Pilkington **SaniTise**™ coating is exposed to UV radiation from natural daylight or from UV disinfection devices it gets activated. It then reacts with water vapour within the air, in a photocatalytic process that produces reactive oxygen species.

These species provide a number of functions, including the ability to break down organic species, providing antimicrobial properties and activity against enveloped viruses on the glass surface. When the coated glass surface is treated using a UV disinfection process, the effectiveness of disinfection is increased and in some cases doubled, compared to using uncoated glass.

Pilkington **SaniTise**™ coating must be UV activated to be beneficial



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "SaniTise", "Optitherm", "Optifloat" and "Suncool" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



CE marking confirms that a product complies with its relevant harmonised European Norm.

The Declaration of Performance for each product, including declared values, can be found at www.pilkington.com/CE



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