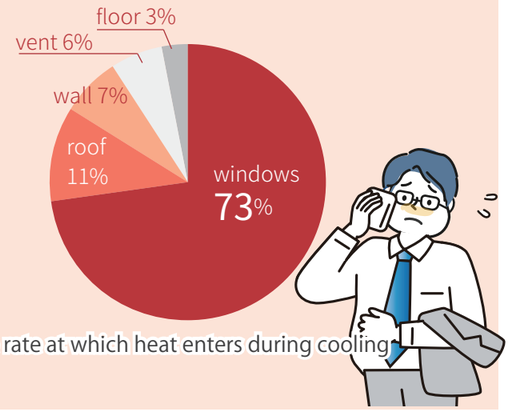
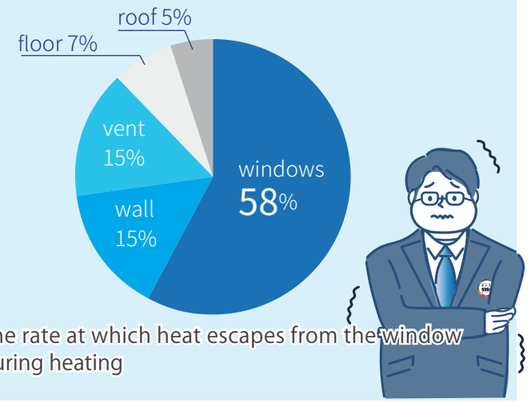
The most important point is insulation of window glass

summer



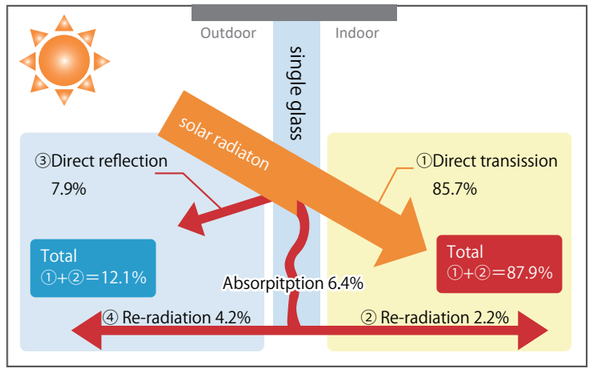
The rate at which heat enters during cooling

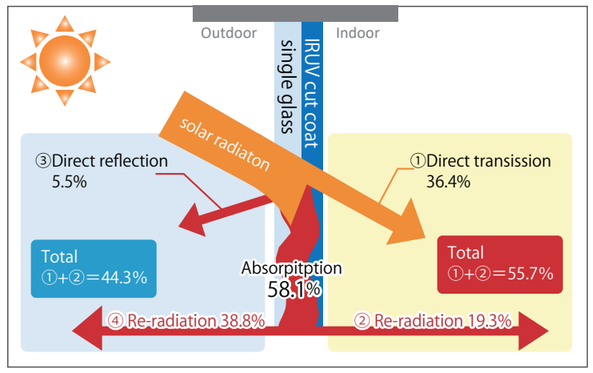
winter



The rate at which heat escapes from the window during heating

The mechanism behind the summer heat shielding effect





Major IRUV Cut Coat Application Projects in Japan

1 100Yen Shop DAISO

30-100 SQM of Glass Window glasses per shop of more than 1200 Daiso Branches across Japan from 2020- 2024.

2 DRUG STORE MORI

(Only New Store)

100-150 SQM of Window glasses per shop of more than 100 DRUGSTORE MORI Branches in Japan from 2020- 2024.

nanotechnology coating to block heat and energy saving for window glass

IRUV Cut Coat H-SC

Thermal insulation coat for window glass

To Nature, Earth & Humans ECO Sketch

Sketch BM Sketch Business Management

For Saving Energy and Earth SNF Sketch Nano.Ph

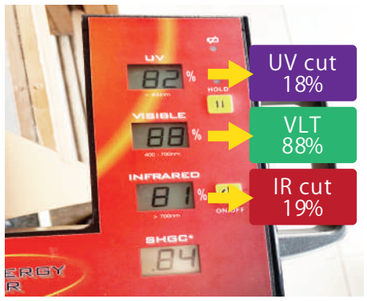
Thermal Paint | Heat & UV Cut Coat | Anti-fouling Coat

What is IRUV CUT COAT H-SC ?

IRUV Cut Coat H-SC is a coating product that improves the heat shielding of glass windows. The coating leads to **25 ～ 30% of Energy Savings** on air-conditioning energy consumption cost.

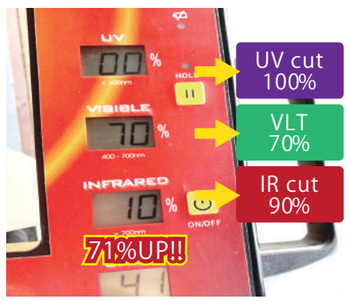
Before Coating

UV ray cut ratio = 18%
Visible light transmittance = 88%
Near infrared rays cut ratio =19%



After Coating

UV ray cut ratio = 100%
Visible light transmittance = 70%
Near infrared rays cut ratio =90%



Advantages on Glass Windows

Heat-blocking effect

Increases near-infrared cut rate by approximately **90% or more**.Near-infrared cut of 90% or more is achieved in Summer
Reduces direct solar heat during summer by approximately 8℃ to 15℃. Far-infrared cut of 90% or more is achieved in Winter. The surface temperature near the windows increases by about 3–5°C,eliminating the cold draft from the windows. Even with the heating setting lowered by 2–3 degrees, it still feels warm.

Ultraviolet Rays blocking effect

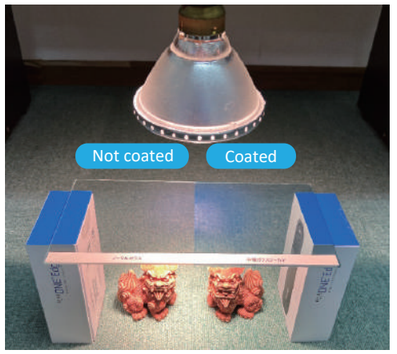
Condensation reduction

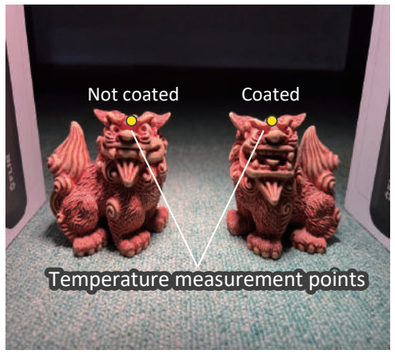
50% condensation reduction / Minimizes water dripping

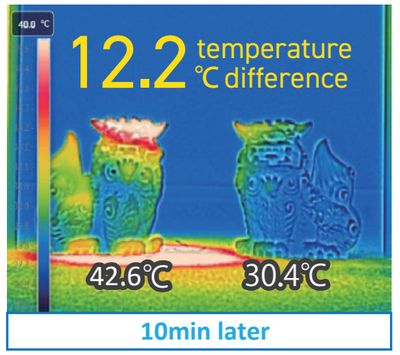
Long durability

15-year weather resistance with a 10-year reinstallation guarantee in Japan.
2 times more durable and longer-lasting than regular window films.* Reduces air conditioning load, resulting in **energy savings of 25-30%**. **Depreciation within 5 years** (theoretical value).

Comparison of normal glass and IRUV cut coat H-SC



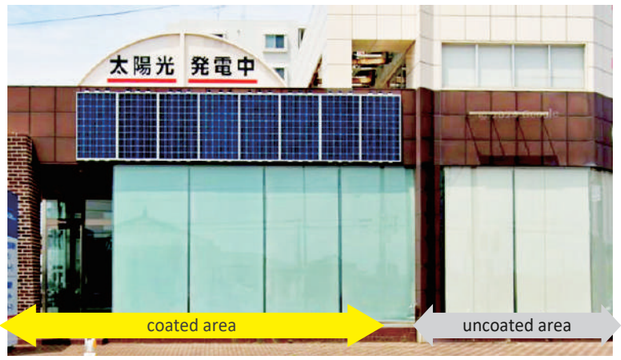


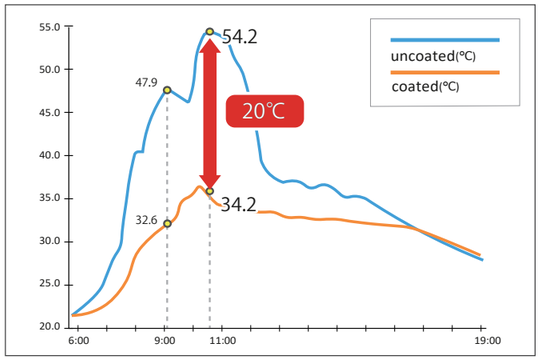


10min later

- A glass coating is applied to half the area of normal glass.
- Assuming we wanted to measure the temperature inside a room, we shone a light through the glass onto an ornament to measure its temperature.
- The thermal image also confirms that it effectively blocks infrared radiation.

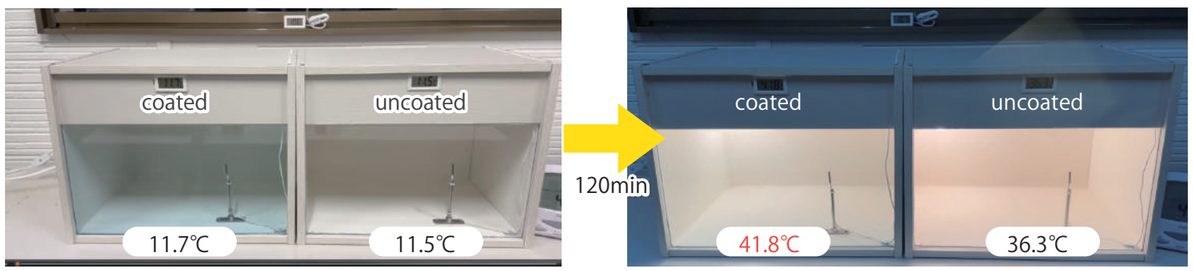
Temperature comparison between coated and uncoated area





※Sep 2 outside tmperature 17.9~26.2℃

Insulation effect verification in water



【Comparison of coated and uncoated single glass】
Outside temperature: 10.6℃, A 100W krypton bulb and a thermometer were placed inside the box.

Coating the room drastically reduces heat loss.

= Proven insulation effect.= Reduces cold zones around windows.
= Prevents condensation