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PREMIUM GLASS FOR PREMIUM COMFORT.

ISOLAR NEUTRALUX® is the high-performance heat-insulating glass from ISOLAR® GLAS. Three functional principles make it a glass for more light and cosiness:

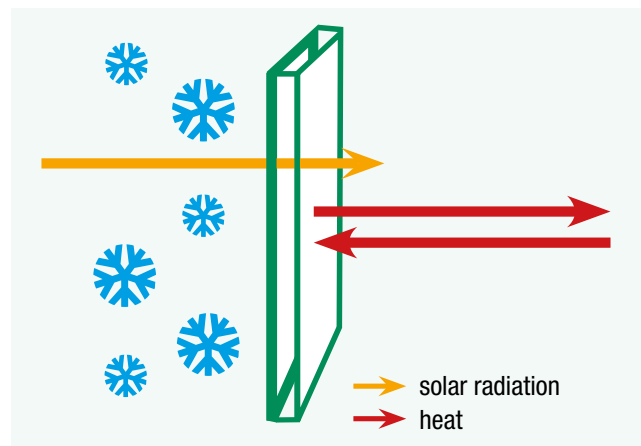
- One glass surface used in the cavity between the panes is provided with a barely perceptible coating (heat radiation).
- The cavity between the panes is filled with a noble gas – argon or krypton – which does not conduct heat as well as air (heat conductivity).
- Depending on how the cavity is filled, the ideal distance between the panes for heat transport is selected (convection).

TURN SILVER INTO GOLD.

In old insulating glass, up to two thirds of heat transport is by heat radiation from the warm inner pane to the cold outer pane. The key to functionality is a coating made of silver. This prevents the heat radiation almost completely. But in isolation, this kind of coating acts like a mirror. That's why the silver coating is hidden in a coating package for ISOLAR NEUTRALUX® heat-insulating glass, which means it is barely perceptible. So, not only does lots of light get into your room, but also as much solar radiation as possible. This means you can use the sun as a free source of additional heating in winter.

GOOD FOR THE ENVIRONMENT, AND YOUR WALLET.

The low U_g value, the high solar factor and the high level of light transmission make ISOLAR NEUTRALUX® double heat-insulating glass one of the most important contributors to energy optimisation for existing buildings. This means you can save up to 20 litres of heating oil/m³ of natural gas per square metre of glass surface compared to old insulating glass. In a detached house with the normal



glass area of around 20 m², that can easily add up to 400 litres of heating oil or m³ of natural gas every year. That's good for the environment, and your bank account.

ENERGY SAVINGS – AT THE HIGHEST LEVEL.

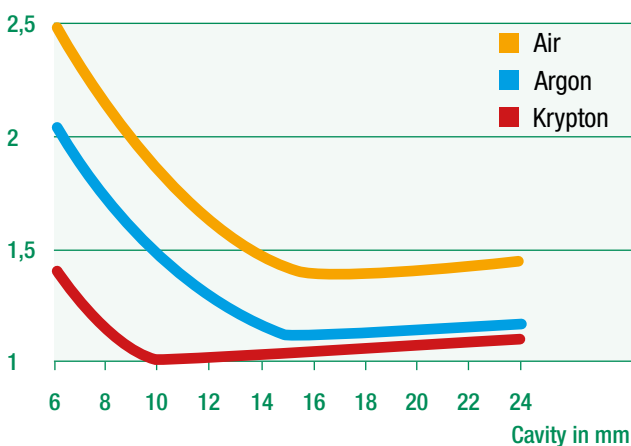
For the highest demands for light and heat, there's ISOLAR NEUTRALUX® triple heat-insulating glass. Two cavities between the panes, each with a high-performance heat-insulating coating, with a noble gas filling and optimised distance of panes, cut the heat loss through the gas panes in half. ISOLAR NEUTRALUX® triple heat-insulating glass also meets the huge legal requirements for energy saving building methods for new buildings, as well as the legal support programmes for low energy consumption houses.

Benefits of ISOLAR NEUTRALUX®:

- Low U_g value
- High solar factor
- High light transmission

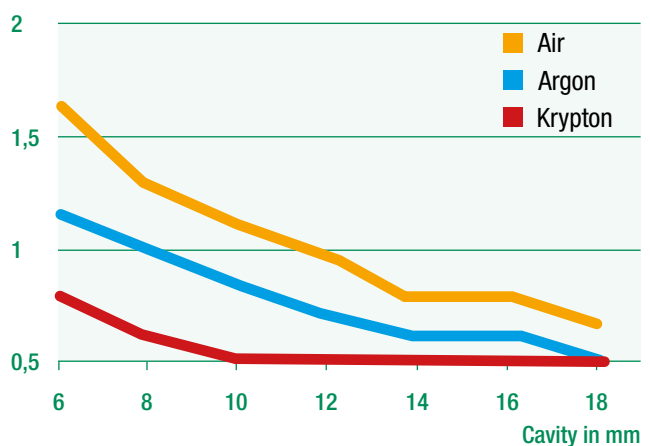
U_g values of ISOLAR NEUTRALUX® advance 34 // double heat-insulating glass

U_g value in W/m²K
(DIN EN 673)



U_g values of ISOLAR NEUTRALUX® advance 34 // triple heat-insulating glass

U_g value in W/m²K
(DIN EN 673)





Raiffeisen multi function building, Raaba, built with ISOLAR NEUTRALUX® advance // Photo: © Arnold Glas

ISOLAR NEUTRALUX® INSULATING GLASS

ISOLAR NEUTRALUX® advance 34 //

Glass type	Glass assembly	U _g (DIN EN 673) in W/m ² K		Light transmission (DIN EN 410) in % (±2)	Solar factor ¹⁾ g value (DIN EN 410) in % (±2)		Light reflexion (DIN EN 410) in % (±2)
		Ar	Kr		Ar	Kr	
1,1	4 / 15-16 / :4	1,1	1,0	82	64	64	12
1,3	4 / 12 / :4	1,3	1,0	82	64	64	12

ISOLAR NEUTRALUX® advance 34 ///

0,5	4: / 18 / 4 / 18 / :4	0,5	0,5	74	53	53	14
0,6	4: / 16 / 4 / 16 / :4	0,6	0,5	74	53	53	14
0,6	4: / 14 / 4 / 14 / :4	0,6	0,5	74	53	53	14
0,7	4: / 12 / 4 / 12 / :4	0,7	0,5	74	52	53	14
0,8	4: / 10 / 4 / 10 / :4	0,8	0,5	74	52	53	14
1,0	4: / 8 / 4 / 8 / :4	1,0	0,6	74	52	53	14

ISOLAR NEUTRALUX® advance 34 leicht ///

0,5	3: / 18 / 2 / 18 / :3	0,5		75	54	54	15
0,6	3 / 18 / :3 / 18 / :3	0,5		75	56	56	15

ISOLAR NEUTRALUX® uno //

1,0	4 / 15-16 / :4	1,0	1,0	70	50	50	22
1,2	4 / 12 / :4	1,2	0,9	70	50	50	22

ISOLAR NEUTRALUX® uno ///

0,4	4: / 12 / 4 / 12 / :4	0,7	0,4	55	35	35	32
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ISOLAR NEUTRALUX® ensolar ///

0,6	4: / 18 / 4 / 18 / :4	0,6	0,6	73	62	62	16
0,7	4: / 16 / 4 / 16 / :4	0,7	0,6	73	62	62	16
0,7	4: / 14 / 4 / 14 / :4	0,7	0,6	73	62	62	16
0,8	4: / 12 / 4 / 12 / :4	0,8	0,6	73	62	62	16
0,9	4: / 10 / 4 / 10 / :4	0,9	0,6	73	62	62	16
1,1	4: / 8 / 4 / 8 / :4	1,1	0,7	73	62	62	16

ISOLAR NEUTRALUX® ensolar leicht ///

0,6	3: / 18 / 2 / 18 / :3	0,6		73	62		20
0,6	3 / 18 / :3 / 18 / :3	0,6		73	65		17

Other types on request. 1) Dimensions in accordance with the current valid price list. 1) Type code: 1st number = U_g value in W/m²K as per DIN EN 673. 1 *) The value depends on the position of the coating(s). Gas fill level: with argon filling 90%, with krypton filling 95%! All ISOLAR NEUTRALUX® heat-insulating glass can be fitted with thermally enhanced edge seal system (Warm Edge) on request! The types and values above are based on information in the ISOLAR® programme as at 01/2017. Please consult the latest version in each case! The manufacture of ISOLAR NEUTRALUX® light /// requires thermal toughened glass. The performances indicated correspond to the relevant, applicable test norms and legal directives, and the test measurements and conditions required or described there. Any formats and combinations deviating from these, as well as, for example, design-related adaptations to glass thickness may lead to a difference with regard to individual performances. The values indicated refer exclusively to the glass elements. The values for other components depend essentially on the frame construction. U_g values are calculated in accordance with DIN EN 673 based on vertical installation. Due to the tolerance of entry parameters, a deviation from the calculated values of up to 0.1 W/m²K is possible.

CLEAR BENEFITS WITH ISOLAR® GLAS.

ISOLAR® GLAS is the insulating glass brand of the ISOLAR® GLAS group. It stands for continually high quality and a high level of safety in product application. This is guaranteed by a comprehensive, three-stage quality system: It includes our own factory production control of manufacturing companies as well as external monitoring by the ISOLAR® GLAS group and independent bodies.

As one of the biggest associations of independent manufacturers of insulating glass in Europe, the ISOLAR® GLAS group is made up of companies in ten different countries. Thanks to close cooperation within the group, customers always have an ISOLAR® GLAS partner nearby, who can offer their support as a highly-competent service provider with a comprehensive range of consulting services.

Every member of the ISOLAR® GLAS group specialises in the manufacture and processing of flat glass. This means they can demonstrate an extraordinarily wide range of products for the sector. In addition, they can produce bespoke solutions for individual projects in ISOLAR® GLAS quality. The portfolio contains ten product groups, covering the various functional areas, whose properties can be combined with each other.

Everything at a clear glance:

- High-quality products, complete range
- Quality control via internal and external monitoring
- Advisory expertise in all aspects of glass
- Flexibility of a medium-sized organisation
- Decentralised structure, short lead times



-  Heat insulation
-  Sound reduction
-  Solar control
-  Burglary protection
-  Safety glass
-  Fire protection
-  Bird protection
-  Vacuum heat technology
-  Light optimisation
-  Aesthetic design

We'll be happy to advise you.

The ISOLAR® GLAS group is your competent partner when it comes to glass. We turn your requests into clear solutions. Just ask us.



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