



**tvitec**

 **ISOLAR**  
NEUTRALUX®

*Insulating Glass  
which offers more  
light and comfort*

**ISOLAR®  
GLAS**

**MEHR AUS GLAS**



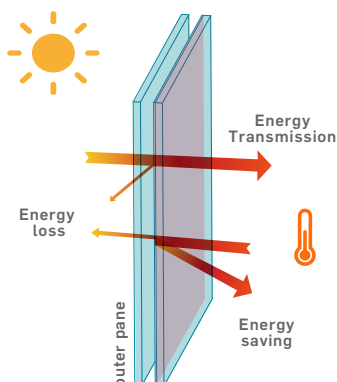
# NEUTRALUX

## INSULATING GLASS WHICH OFFERS MORE LIGHT AND COMFORT

Neutralux® has been developed to provide Thermal insulation glazing. It reduces heat losses to the outside and provides excellent transparency.

It is made up of a foundation on which a layer of metal oxides is placed in a high vacuum chamber, conferring high energy efficiency to the glass.

Neutralux® has a neutral appearance capable of maintaining the tonality of objects both seen in transmission and reflected on their surface, clearly and brilliantly observed from any angle.



▶ Neutralux® technology enables control of the transfer of heat energy to the outside and provides low emission properties.

By placing Neutralux® inside the glazing, the sun provides natural heating to the room allowing infrared radiation to penetrate. It is perfect in cold climates or locations with little sun during the year.

Additionally, Neutralux® can be placed in the outer pane of the glazing, thus reducing the heat transmission into the building through the glazing and the solar factor. Neutralux® S is the ideal insulating glazing for energy saving in warm areas.

The incorporation of argon gas in the chamber of an ISOLAR Neutralux® glass provides efficient thermal transmittance.



## ➤ SERVICES

High energy efficiency: It effectively uses the sun to obtain light and heat.

It preserves the comfort inside the room by reducing the heat transfer to the outside.

It reduces energy consumption for heating and air conditioning.

It ensures a comfortable indoor climate.

It is an environment-friendly product, since it generates fewer CO<sub>2</sub> emissions into the atmosphere.

Neutralux® T is available for heat-treated coated glass while maintaining its properties both in terms of values and appearance. Both glasses can be combined on the same façade.

This glass contributes to the achievement of LEED BREEAM, and WELL points.

## ➤ PRODUCT RANGE

Standard dimension 3.210 x 6.000 mm  
Greater dimensions, check availability.

Standard thickness 4, 6, 8 mm  
Thickness 3, 5, 10 y 12 mm, check availability.

Available processing: laminated, heat-strengthened or tempered.

## ➤ SCOPE OF APPLICATION

Neutralux® glasses are recommended for:

**Residential use:** glazed galleries, large windows, enclosures, roofs or skylights. In compliance with the requirements of the Technical Building Code (CTE, for its Spanish initials).

In the **commercial** environment, it can be used on façades where a large amount of natural light and low thermal transmittance is demanded.

A low-e glass which is perfect for both cold and sunny climates all year round, and for warmer climates, depending on the placement of the coated glass.





## ➤ PROCESSING

Neutralux® can be heat-strengthened (Duritec®HS) or tempered (Duritec® safety glass) so that it increases its mechanical and thermal resistance. An optional second process after tempering, Heat Soak Test (HST) is used to reduce the risk of spontaneous breakage.

Neutralux® is used in insulating glass units (Isolar®) with the coating on the cavity-face. It is available on both monolithic

and laminated glass.

TVITEC recommends to request product samples before the project implementation.

For any special processing request, please contact the technical department.

## ➤ SPECIFICATIONS

In triple glazing, the thermal insulation properties can be reinforced by combining of Neutralux® S and of Neutralux® glasses, which allows to obtain thermal transmittance values (Ug) of up to 0.5 [W/m<sup>2</sup>·K].

These are layers categorised as class C, according to the requirements of the EN 1096 standard. In addition to being compliant with the European CE marking.



## Performance values

Product name	Layer position	Visible light %		Solar energy %		Thermal transmittance (U-value)	
		Transmittance (τv)	Reflectance (ρve)	Transmittance (τe)	Solar factor g	Argon	Air
<b>Values for the Double Glazing: 6 mm   gap 16 mm   4 mm</b>							
Neutralux®	Face #3	81	11	57	63	1,1	1,4
Neutralux® 1.0	Face #3	75	17	45	50	1,0	1,3
Neutralux® S	Face #3	81	12	57	60	1,1	1,4
Neutralux® S 1.0	Face #3	75	18	45	47	1,0	1,3
<b>Triple Glazing: 6 mm   gap 16 mm   6 mm   gap 16 mm   6 mm (+ Low-e coating Neutralux® #5)</b>							
Neutralux® S	#2 (+ #5)	74	16	44	52	0,6	0,7
Neutralux® S 1.0	#2 (+ #5)	68	22	38	43	0,5	0,6

The performance values shown have been obtained by means of calculation programmes and may differ from those provided by the end product. These are based on the calculation systems described in the current standards (EN 410:11 and EN 673:11). The tolerances are defined according to EN 1096-4.

For further information, do not hesitate to contact your sales representative or our technical team.

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based on  
excellence, innovation  
and the most avant-garde  
techniques.*

**#passionforglass**



Tvitec System Glass



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*glass from another dimension*

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Supplier: