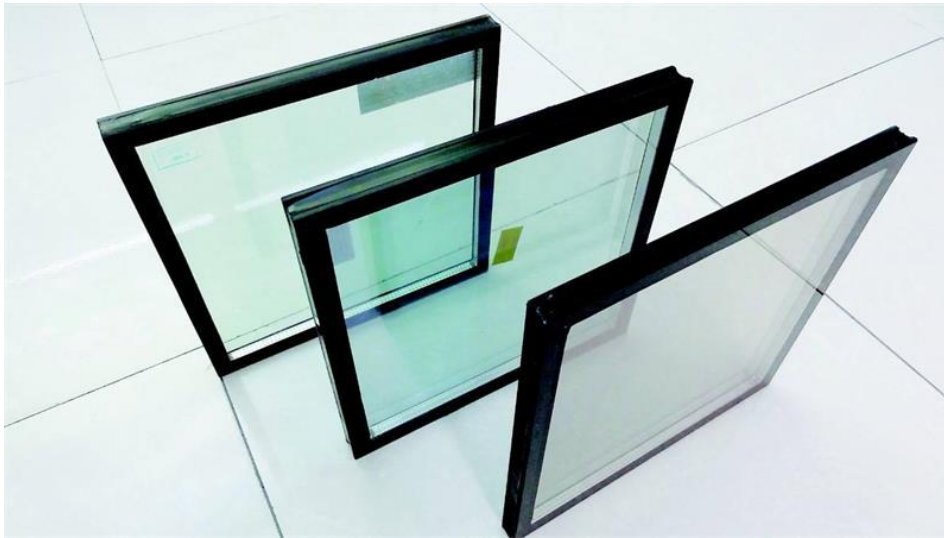


The reasons for argon leakage for Insulated glass

The argon filled insulated glass can improve the thermal insulation performance and sound insulation performance of the **insulated glass**, reduce the dew point of the insulated glass, prevent oxidation of the coated glass, and reduce the amount of failure of the insulated glass due to the stress. Maintaining argon gas that has been filled into the interior of the double glazed units glass for a long time is very beneficial for maintaining good performance of the insulated glass and prolonging the life of the insulated glass (more than 15 years).



The argon gas filled in the qualified IGU is not leaking more than 1% per year. Thus, if the initial concentration of argon gas charged into the insulated glass is 85% or more, the argon gas concentration inside the insulated glass is still 60% or more after 15 years, and the IGU still has relatively excellent performance.

However, many of the argon filled IGU factory measure that the argon content more than 85%, but after a while, it is found that the argon content is reduced or there is no argon. There are usually several reasons for this:

1. Quality problems of insulating sealant. Insulated glass is a sealed space composed of PIB, structural rubber double-pass seal, glass and spacer. Butyl rubber and secondary sealant play the role of double-channel sealing. If one of the butyl rubber and the structural rubber or one of the structural adhesives is of poor quality, the sealing performance of the insulated glass will not be improved. This leads to an increase in the argon leakage rate inside the insulated glass.

2. There is a problem with the glue coating process. The butyl rubber applied to the spacers should be uniform, without unevenness and breakage. Special care must be taken to ensure that the coated butyl rubber has sufficient width and sufficient thickness (thickness is often overlooked). The structural adhesive is the second seal of the insulated glass, and the thickness of the adhesive is also uniform and sufficient to maintain a sufficient thickness.



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3. There is an unsealed point on the spacer frame. The four corners of the spacer frame made of gussets must be sealed with butyl rubber. The joint of the straight insert of the integral bending frame, the inflation hole, etc., where the seal may occur, should also be blocked with butyl rubber.

4. In the process of manufacturing IGU, or just finished IGU handling (especially large IGU) is also a factor that is prone to air leakage.

5, LOW-E and other coated glass in addition to the film is not good, resulting in gas leakage on the bonding surface.

6. The surface of the glass or spacer strip is not clean or oily, which may cause air leakage on the glue joint.

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Tags: argon filled double glazed unit, argon filled IGU, argon filled insulated glass, glass thermal insulation performance, insulated glass, insulated glass argon leakage, insulating sealant



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About Morn Building Materials:

Morn Building Materials Co.,Ltd is trading company offering the right facade materials for a wide range of applications for architectural,design and system requirements.Cooperating with China premium glass fabricators,Morn is able to supply whatever glass products applied in facade,Spandrel ,roof ,handrail,partition,balustrade,canopy,greenhouse,sun room ,interior exterior application.

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From aesthetics, to strict environmental and energy specifications, to critical budget and delivery requirements, our input can make a difference.

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