

Argon Filling Explained

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The advantage of having argon gas between the panes of glass is simple, argon transfers less heat than air does. Argon has a lower U-value because it is denser than air, so it conducts less heat. A double-glazed window with argon loses less heat than a double-glazed window filled with air. Liverside Windows have now introduced the use of argon gas, with measurable improvement in thermal performance. This enables us to achieve the new Energy Ratings introduced by the Government for the 1st October 2010.

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Argon is a noble, inert gas which is inexpensive, nontoxic, nonreactive, clear, and odorless. It is a naturally produced gas which is already present in the air we breathe. Furthermore, Argon is the most plentiful of the inert gases, representing 0.9 percent of Earth's atmosphere. It is environmentally friendly, and argon's abundance makes it relatively inexpensive. It is also the most commonly used gas out of the three (the others being Krypton & Xenon), due to its excellent thermal performance and cost-efficiency in comparison to other gases and air filled windows. Argon Filled UPVC Windows help reduce the amount of solar radiation coming through the glass in hot climates, while maintaining a higher interior temperature during winter. The higher temperature of the interior glass surface also helps to reduce frost and condensation.

Over time, argon gas may leak out of the space between the panes of glass. The amount lost depends on how well the window was manufactured and the quality of materials used. Argon leaks are usually caused by failure of the seals between the glass and the edge spacer. Also, some gas is lost because it diffuses through the seals. Even if the argon gas does leak, the window's thermal performance isn't affected much, As long as there is no noticeable failure of the seal. Tests have shown that if an argon-filled window leaks five percent of its gas each year, It will lose only 12 percent of its value after 20 years.

All our Energy Rated UPVC Windows are carefully manufactured to EN1279 Part 3 and are Dual Sealed with a Primary Seal & then a Secondary Seal is added for extra protection to help stop the gas from leaking.

