

Argon Vs. Krypton Gas Filled Windows

- Krypton and Argon gases are pumped into the areas between the panes in energy-efficient windows because they're heavier than air. These odorless, non-toxic gases move slower than air does, and having the gases in an enclosed space slows down or stops energy that travels through them.
- Argon is six times denser than air, while Krypton is twelve times denser than air. That means that Krypton slows down or blocks thermal energy traveling through windows much more effectively than Argon.
- Think about how much more resistance you face when walking in water, as opposed to on dry land. Argon and Krypton make the slot between panes seem more like a swimming pool than the pool deck to energy attempting to pass through the space.
- Windows with Krypton fillings tend to be close to 40 percent more expensive than windows with Argon fillings.
- A general rule is that Argon gas is found in windows with a space of $\frac{1}{2}$ inch or more between panes, including most double-pane models. Meanwhile, Krypton gas is generally used in windows that have a $\frac{3}{8}$ inch gap between panes (which are generally triple-pane models). This is the case both because it's more cost efficient to pump Krypton into smaller spaces between window panes and because Krypton performs best as an insulator in this design.