

# Krypton

## Rare Gas Application: Insulated Glass



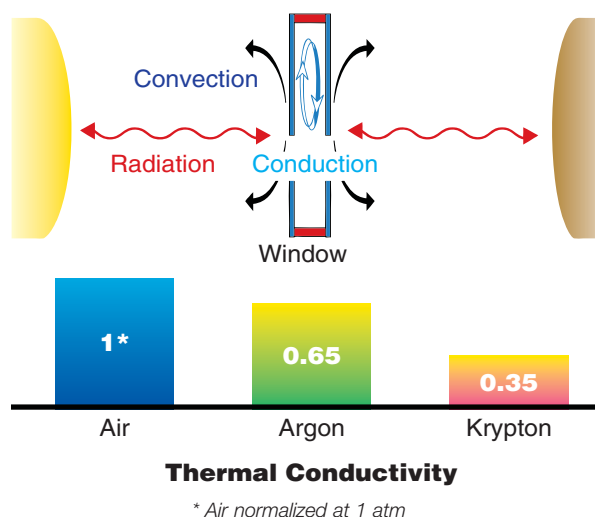
Insulated glass improves thermal and sound insulation performance of windows. This solution for the building sector reduces energy costs, carbon dioxide emissions and interior noise.

Air Liquide is a pioneer in the development of rare gas applications for insulated glass. Krypton mixtures are the best performing mediums for cost and efficiency.

**As the world leader in rare gas technology, Air Liquide provides high-purity krypton that is ideally suited for insulated glass applications.**

# Krypton

## Rare Gas Application: Insulated Glass



### Krypton in Insulated Glass

Rare gases enhance the performance of window conduction and convection. Krypton is a better thermal insulator than air because it is three times less conductive. Krypton's high density reduces convection effects, further improving thermal insulation performance. Krypton is also a better sound insulator than air, with a 50% higher efficiency.

### World Leader in Rare Gas Technology

Air Liquide offers over 20 years of experience working with leading global window manufacturers. Through our Dedicated Advanced Technologies Division and in collaboration with the insulated glass sector, we have developed rare gas applications that improve the performance of insulated glass windows.

As the world's premier supplier of rare gases, Air Liquide has the largest sourcing capability as well as efficient supply chain configurations to ensure reliable and timely delivery of gases to meet the most stringent customer needs. Our facilities employ leading-edge technologies and state-of-the-art analytical instruments to guarantee production of gases ranging from "standard" quality to the most ultra-high-purity gases available on planet Earth.



Air Liquide Delaware Research and Technical Center

### The Air Liquide Krypton Advantage

- Rare gas and handling equipment to meet the most demanding applications
- Dedicated Advanced Technologies Division for development of insulated glass products and services
- Research and technical centers on three continents
- World leadership in the supply of rare gases
- World leadership in supply chain excellence with operations in over 80 countries

### IGAL™ – Efficient Insulated Glass Fill Machine

- Reduce krypton gas loss
- Guaranteed krypton fill level
- Automatic shutoff: excessive filling duration
- Calibration alert and easy calibration



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Founded in 1902, Air Liquide is a world leader in industrial and medical specialty gases and related services, providing innovative solutions for the manufacture of everyday products and for the protection of life.

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