

Editorial Note on Medical Oxygen **Nikitha Yerram***

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Editorial Note

Amidst the crisis of the current pandemic situation, the demand for medical oxygen has drastically which has led to the shortage of medical oxygen world-wide. Here are a few interesting facts regarding medical oxygen, its production, rules and regulations for its procurement.

Medical oxygen is high-purity oxygen that is formulated for use in the human body and is used for medical treatments. To avoid pollution, medical oxygen cylinders only contain high-purity oxygen gas; no other gases are permitted in the cylinder. Medical oxygen comes with its own set of conditions and guidelines, including the fact that you have a prescription to order it.

Industrial oxygen is used for combustion, oxidation, cutting, and chemical reactions in industrial plants. The purity levels of industrial oxygen are not suitable for human use, and impurities from dirty machinery or industrial storage may make people sick.

Medical oxygen is used in many different situations. Medical oxygen is often administered in medical settings such as hospitals and clinics. It is used in anaesthesia, emergency resuscitation, life support for patients who are unable to breathe on their own, and oxygen therapy.

Misconceptions about Oxygen

Our atmosphere contains 100 percent oxygen, according to popular belief. That is not the case. The air we breathe contains around 21% oxygen and 78% nitrogen. The final 1% is made up of a mixture of other gases such as carbon dioxide and hydrogen. Another common misconception is that some professions or uses need high quality oxygen that is similar to 100% oxygen. High purity grade oxygen, for example, will not be used in firefighting,

deep-sea diving, or other applications. For user convenience, most of these situations use standard air or ABO gas, which is also filtered and chilled.

The Food and Drug Administration (FDA) has defined requirements for medical oxygen:

Since medical oxygen is regulated by the US Food and Drug Administration, it requires a prescription. The FDA wants to make sure that users are healthy and that patients are receiving the right amount of oxygen. There is no one-size-fits-all solution because people are different sizes and need different quantities of medical oxygen for their particular medical conditions.

The FDA also mandates that medical oxygen cylinders be free of pollutants and that a chain of custody be maintained to ensure that the cylinder is only used for medical purposes. Cylinders that had previously been used for other purposes would not be used for medical-grade oxygen unless they had been evacuated, thoroughly washed, and properly labelled. The FDA has approved Air Source Industries to fill medical oxygen cylinders for patients who have a valid prescription.