



OXYGEN Application

O₂ APPLICATION

Oxygen (O₂) is an active, life-sustaining component of the atmosphere: making up 20.94%. It is colorless, odorless and tasteless. Oxygen is commonly used, with or instead of air, to increase the amount of oxygen available for combustion or biological activity. This increases reaction rates and leads to greater throughput in existing equipment and smaller sizes for new equipment.

Oxygen has numerous uses in steelmaking and other metals refining and fabrication processes, in chemicals, pharmaceuticals, petroleum processing, glass and ceramic manufacture, and pulp and paper manufacture. It is used for environmental protection in municipal and industrial effluent treatment plants and facilities. Oxygen also has numerous uses in healthcare, both in hospitals, outpatient treatment centers and home use. For some uses, such as effluent treatment and pulp and paper bleaching, oxygen is converted to ozone (O₃), an even more reactive form, to enhance the rate of reaction and to ensure the fullest possible oxidation of undesired compounds.



Glass Manufacturing

Oxygen in glass industry plays very important role and is typically used to enhance combustion. The benefits are fuel saving due to improved furnace efficiency, increased flame temperature, reduced energy cost, reduced pollutants, improved glass quality and etc. These benefits create an platform for production increase which is the most common motivation for using oxygen.

