



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.



Medical

Beside basic respiratory support, benefits of medical oxygen can make feeling of well-being and freshness, increase partial pressure of oxygen in blood, muscles and muscle tissue, improve levels of concentration as well. Normally, oxygen supply of healthcare including central oxygen supply to hospitals, nursery & retirement homes, field hospitals, veterinary facility.

Hyperbaric oxygen therapy involves providing the body with extra oxygen. 'Hyper' means increased and 'baric' relates to pressure. HBOT has been used around the world for over 60 years in the prevention and improvement of debilitating conditions as well as in the enhancement of overall health.

