

PRODUCT TECHNICAL SHEET INDUSTRIAL OXYGEN (IND. O₂)

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Version: 2

Ref. No.: PSI27



Oxygen is a colourless, odourless and tasteless gas. It is supplied in high pressure steel cylinders. Oxygen as a gas is slightly heavier than air. Oxygen vigorously supports combustion of many materials which will not normally burn in air. Oxygen will also remain for considerable period in clothing


Gas Specification

Purity	≥99.5%
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Physical Data

Specific Volume @20°C	775.4 l/kg
Molecular Weight	32.0
Boiling point at 101,325 kPa	-183°C
Relative Density (air= 1) at 101,325 kPa	1,105

Transport/ Storage Information

 Category 1 Danger May cause or intensify fire; oxidizer
UN No 1072 Class 2.2
Do not allow cylinders to slide or come into contact with sharp edges
Cylinders of Oxygen should not be stored near cylinders of acetylene or other combustible gases.
First in - First out inventory system

Hazards

Vigorously supports combustion
All cylinders are portable gas containers and must be regarded as pressure vessels at all times
Never Permit oil, grease or other readily combustible to come into contact with oxygen
Prevent dirt, grit of any sort, oil, or any other lubricant from entering the cylinder valves, and store cylinders well clear of any corrosive influence e.g. battery acid

Uses and Features

In combination with gas such as acetylene, hydrogen or LPG, it is used in welding, cutting, brazing, hardening, scarfing flame cleaning and heating.
Used in the manufacture of steel, glass, ethylene oxide, methanol, acrolein, titanium dioxide, vinyl acetate and synthesis gas
Can be considered for use in any chemical reaction where air is used to give faster reaction time and higher yields



Cylinder Information

Colour Coding	Cylinder Capacity		Pressure @ 20°C (Bar)	Cylinder Dimension		Valve Outlet Connection
	M ³	CUFT		Height (mm)	Diameter (mm)	
Black	3.4	120	140	1200	180	5/8" BSP right hand female
	8.49	300	200	1440	230	
	10.48	375	200	1500	230	

Nb: Other cylinders capacity and dimension also are available - Dimensions are given as an indication and can differ

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