## TECHNICAL SPECIFICATION

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Oxygen > 99.5%
Moisture < 10 ppm

### PHYSICAL DATA
- Chemical Symbol: O2
- Boiling Point: -183.0°C
- Relative Density (Air = 1): 1.105
- Molecular Weight: 31.999
- Critical Temperature: -118.8°C
- Flashpoint: Non-flammable
- Density of Gas (@101.3 kPa & 15°C): 1.355 kg/m³
- Density of Liquid (B.Pt.): 1141 kg/m³
- Specific Volume (@101.3 kPa & 15°C): 0.738 m³/kg

### PROPERTIES
Oxygen gas is odorless and tasteless and constitutes Approx. 21% of volume of air. It supports combustion and sustains life. In liquid form it is pale blue in color.

## HANDLING & SAFETY

### HAZARDS
Oxygen vigorously supports combustion of many materials which will not normally burn in air.
Extremely low temperature (−183°C)

### MATERIALS COMPATIBILITY
Equipment to handle oxygen must be constructed of suitable materials for the low temperatures encountered. Copper, brass and stainless steel are the most commonly used metals. Most lubricants are NOT compatible.
N.B. Oil and grease may result in vigorous ignition.

### PRECAUTIONS IN USE
No smoking, naked lights or hot work in vicinity.
Do not use oil and grease, use only approved degreased equipment.
Clothing which becomes impregnated with even small quantities of oxygen must be vigorously ventilated in a remote area.
It is recommended that the user of liquid oxygen is familiar with relevant standards “The storage and handling of nonflammable cryogenic and refrigerated liquids”.

### PERSONAL PROTECTION
Full face mask, well-fitting cryogenic gloves and full overalls without cuffs should be worn when handling liquid oxygen supply systems.

### FIRST AID
- If victim is conscious:
  - Move to uncontaminated area to breathe fresh air.
  - Keep warm and quiet.
  - Call doctor and advise that patient is experiencing (has experienced) hyperoxia.
- If victim is unconscious:
  - Move to uncontaminated area and give assisted respiration.
  - When breathing is restored, treatment as above.
  - Continued treatment should be symptomatic and supportive.

### ADDITIONAL INFORMATION
The information, recommendations and data contained in this publication are intended to give basic guidance to users for their safe handling and use.
For further information please refer Material Safety Data Sheets (MSDS)
It is essential for the safe use of gases that personnel are properly trained and are fully aware of the possible hazards.