

# OXYGEN - (O<sub>2</sub>)

6.0

<b>DESCRIPTION :</b> A colorless, oxidizing, high-pressure gas.	<b>APPLICATIONS :</b> Chemical vapor deposition of silicon dioxide, especially for MOS gate oxides; thermal oxide growth; plasma etching; carrier gas in certain deposition/diffusion operations.	<b>ADR Item No.</b> : 2, 1 O
		<b>ADR</b> Label 2.2 Non flammable, non toxic gas Label 5.1 Oxidising substance
		<b>MSDS REFERENCE</b> : 097A
		<b>CHEMICAL ABSTRACTS</b> : 7782-44-7
		<b>UN No.</b> : 1072

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
50H	11 m <sup>3</sup>	200	Diaphragm	9	Brass

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
<b>MINIMUM PURITY</b>	<b>99,9999 %</b>	
Carbon Dioxide (CO <sub>2</sub> )	≤ 0,1 ppm	J
Carbon Monoxide (CO)	≤ 0,2 ppm	
Methane (CH <sub>4</sub> )	≤ 0,02 ppm	J
Nitrogen (N <sub>2</sub> )	≤ 1 ppm	S
Argon (Ar)	≤ 0,5 ppm	A
Water (H <sub>2</sub> O)	≤ 0,5 ppm	E

Sum total of all impurities not to exceed 1 ppm.

**Notes :**

- ◆ Cylinder sizes, contents, valve types and valve connections other than those indicated above are available on request.
- ◆ All expressions for concentration are for gas phase, by volume unless otherwise noted.
- ◆ MSDS Ref.: More detailed Safety Information can be obtained from the Material Safety Data Sheet No. 097A

Key to Analytical Techniques			
A	Gas Chromatograph with Thermal Conductivity Detector	D	Specific Oxygen Analyzer
B	Gas Chromatograph with Flame Ionization Detector	E	Specific Water Analyzer
C	Gas Chromatograph with Ultrasonic Detector	F	Total Hydrocarbon Analyzer
		G	Infrared
		H	Proprietary
		I	Gas Chromatograph with Helium Ionization Detector
		J	Flame Ionization with Methanizer
		K	Gas Chromatograph - Photo Ionization
		L	Gas Chromatograph - Flame Photometric
		M	Mass Spectrometry
		N	Wet Chemical
		O	Gas Chromatograph with Discharge Ionization Detector
		P	Gas Chromatograph with Methanizer Carbonizer
		Q	Gas Chromatograph with Electrolytic Conductivity
		R	Gas Chromatograph with Reduction Gas Analyzer
		S	Gaschromatograph with High Frequency Discharge Detector

**IMPORTANT**

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