

OXYGEN - (O₂)

5.0

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

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
50H	11 m ³	200	Pressure Seal	9	Brass

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
MINIMUM PURITY	99,999 %	
Carbon Dioxide (CO ₂)	≤ 0,5 ppm	J
Total Hydrocarbons (THC)	≤ 0,1 ppm	F/J
Nitrogen (N ₂)	≤ 5 ppm	S
Argon (Ar)	≤ 5 ppm	A
Water (H ₂ O)	≤ 3 ppm	E
Carbon Monoxide (CO)	≤ 0,5 ppm	J

Sum total of all impurities not to exceed 10 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
Information prepared herein has been prepared by qualified experts within Praxair. While the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, Praxair makes no warranty or representation as to the suitability of the use of the information for any general or particular purpose. The information is provided with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair arising out of the use of the information contained herein exceed the fee established for providing such information.

To ensure you have the latest available information, refer to this number when contacting your local Praxair office.

EG 66-5.0
08/2003