

# ARGON - (Ar)

# Ultraplus - 6.0

<b>DESCRIPTION :</b> A colorless, non flammable, high-pressure gas. It acts as a simple asphyxiant by displacing air.	<b>APPLICATIONS :</b> Carrier/Purge gas; blanket gas to exclude air from certain fabrication processes, especially in crystal growing; ion milling and other etching processes; ion implantation; sputtering; gate oxidation anneal gas. Operations susceptible to even very low levels of carbon, oxygen or nitrogen, such as sputtering or annealing of thin gate oxides, would benefit most from the use of 6.0 Argon.	<b>ADR Classification</b> : 2, 1 A
		<b>ADR</b> Label 2.2 Non flammable, non toxic gas
		<b>MSDS REFERENCE</b> : 003A
		<b>CHEMICAL ABSTRACTS</b> : 7440-37-1
		<b>UN No.</b> : 1006

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
50H	11 m <sup>3</sup>	200	Diaphragm	6	316L SS

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
<b>MINIMUM PURITY</b>	<b>99.9999 %</b>	
Carbon Dioxide (CO <sub>2</sub> )	≤ 0,05 ppm	J
Carbon Monoxide (CO)	≤ 0,05 ppm	J
Total Hydrocarbons (THC)	≤ 0,05 ppm	B
Hydrogen (H <sub>2</sub> )	≤ 0,1 ppm	I
Nitrogen (N <sub>2</sub> )	≤ 0,5 ppm	S
Oxygen (O <sub>2</sub> )	≤ 0,2 ppm	D
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. 003A

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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**EG 2-6.0  
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