# ARGON - (Ar) 5.0

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|---|---|---|
| **DESCRIPTION :**<br>A colorless, non flammable, high-pressure gas. It acts as a simple asphyxiant by displacing air. | **APPLICATIONS** :<br>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. Sputtering grade argon can be especially useful for high-purity sputtering, which requires all oxides, carbons and nitrogen at very low levels. | **ADR Classification** : 2, 1 A<br>**ADR**<br>Label 2.2 Non flammable, non toxic gas<br>**MSDS REFERENCE** : 003A<br>**CHEMICAL ABSTRACTS** : 7440-37-1<br>**UN No.** : 1006 |

| PRODUCT | | PRESSURE BARG | VALVE TYPE | VALVE OUTLET | VALVE MATERIALS OF CONSTRUCTION |
|---|---|---|---|---|---|
| CYLINDER | CONTENTS | | | DIN 477 No | |
| 50H | 11 m³ | 200 | Diaphragm | 6 | Brass |

| PRODUCT CHARACTERISTICS | PRAXAIR SPECIFICATIONS | METHOD OF ANALYSIS (SEE KEY) |
|---|---|---|
| **MINIMUM PURITY** | **99.999 %** | |
| Total Hydrocarbons (THC) | ≤ 0,2 ppm | B |
| Hydrogen ($H_2$) | ≤ 1 ppm | I |
| Nitrogen ($N_2$) | ≤ 5 ppm | S |
| Oxygen ($O_2$) | ≤ 2 ppm | D |
| Water ($H_2O$) | ≤ 3 ppm | E |

**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
B Gas Chromatograph with Flame Ionization Detector
C Gas Chromatograph with Ultrasonic Detector
D Specific Oxygen Analyzer
E Specific Water Analyzer
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



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

*EG 2-5.0*
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