



Chemical Name: Argon Gas

Manufacturer: Matheson Tri-Gas

Container Size: NA

Location: VLA Site

Disposal: Electronic Safety Procedure

Argon

Ar

Grade	Semicon 5N	ULSI 6N
Purity, %	99.999	99.9999
Oxygen	≤1.0 ppmv	≤300 ppbv
Nitrogen		≤700 ppbv
Carbon Dioxide	≤0.5 ppmv	≤100 ppbv
Carbon Monoxide	≤0.5 ppmv	≤100 ppbv
Methane	≤0.5 ppmv	≤100 ppbv
Water	≤3.0 ppmv	≤500 ppbv

- A lot analysis is provided for each order. – Individual analysis is also available upon request.
- Pneumatic valves and JIS connections are available upon request.

CYLINDER	Internal Volume	Liters	43.8	2.3
	Cylinder Sizes >>		QF/QA	JF/JA/JB
	Content	Liters	7,930	340
		ft ³	280	12
	Cylinder Pressure*	psig	2,490	2,000
atm		176.1	141.6	

* @ NTP

SHIP	DOT Shipping Name	Argon, Compressed	UN Number	UN 1006	Shipped as
	DOT Classification	2.2 (Non-Flammable Gas)	ECCN#	EAR99	Compressed Gas
	DOT Label	NON-FLAMMABLE GAS	Harmonized #	2804.21.0000	

TECHNICAL DATA	Specific Volume	0.604 m ³ /kg
	@NTP	9.68 ft ³ /lb
	CAS No	7440-37-1
	CGA/DISS/JIS	580/718/22-14R
	Atomic Weight	39.95 g/mol

Critical Temperature	-122.4°C	-188.4°F
Critical Pressure	50 atm	711.5 psia

NTP = 21°C or 70°F and 101.3 kPa or 1 atm

Cylinder	Treatment	Nominal Diameter (OD)xHeight*		Material of Construction	
		cm	Inches	Cylinder	Valve
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
QA	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	Brass
JF	ULTRA-LINE®	10x33/37/46	4x13/14.5/18	CS	SS
JA	ULTRA-LINE®	10x33/37/46	4x13/14.5/18	CS	Brass
JB	ULTRA-LINE II®	10x33/37/46	4x13/14.5/18	CS	SS

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top of the handwheel
CS: Carbon Steel SS: Stainless Steel