

Transportation Information



UN Number: 1066

Shipping Name	Nitrogen, Compressed	Nitrogen, Compressed	Nitrogen, Compressed
Hazard Class	2.2 Nonflammable	2.2 Nonflammable	2.2 Nonflammable
Label	Gas	Gas	Gas

(M)SDS Reference

P-4631

CAS Number

7727 - 37 - 9

General Description

Colorless, odorless, nonflammable inert gas.

Product/Grade	Purity	Part Number	Cylinder	O ₂	H ₂ O	CO ₂	CO	THC	H ₂	NOx	N ₂ O	SO ₂	SF ₆	Halogens
Research, 6.0	99.9999%	NI 6.0RS	T, K	0.5	0.2	0.1	0.1	0.1	-	-	-	-	-	-
Chromatography, 6.0	99.9999%	NI 6.0CH	T, K,	0.5	0.5	0.1	0.1	0.1	-	-	-	-	-	-
Semiconductor, 6.0	99.9999%	NI 6.0SP	T, K	0.2	0.2	0.1	0.1	0.1	0.1	-	-	-	-	-
CEM, 5.5	99.9995%	NI 5.5CE	AS, AQ, A3	0.5	2	1	0.5	0.1	-	0.1	-	0.1	-	-
Trace Analytical Grade, 5.5	99.9995%	NI 5.5TG	T, K	1	2	0.1	1	0.1	-	-	-	-	-	500 ppt ⁽¹⁾
LaserStar, 5.5	99.9995%	NI 5.5LS	AT	1	2	-	-	0.1	-	-	-	-	-	50 ppt ⁽²⁾
Semiconductor, 5.5	99.9995%	NI 5.5SP	T, K	0.5	0.5	0.5	1	0.5	0.5	-	-	-	-	-
Ultra High Purity Plus, 5.3	99.9993%	NI 5.3UP	T, K	1	1	0.5	0.5	0.5	-	-	-	-	-	-
Ultra Zero Ambient Monitoring, 5.0	99.999%	NI 5.0UM	T, K, AS, AQ	2	2	0.5	0.1	0.5	-	0.02	-	0.005	0.001	-
Volatile Organic Compound Free, 5.0	99.999%	NI 5.0VC	AS, AQ, A3	2	2	0.3	0.01	0.1 ⁽³⁾	-	-	-	0.01	-	-
Vehicle Emission Zero (1065), 5.0	99.999%	NI 5.01065	T, K, AS, AQ	2	-	10	1	0.05	-	0.02	0.02	-	-	-
LaserStar, 5.0	99.999%	NI 5.0LS	T, K	1	3	-	-	0.5	-	-	-	-	-	-
Ultra High Purity, 5.0	99.999%	NI 5.0UH	T, K, Q,	1	3	-	-	0.5	-	-	-	-	-	-
Semiconductor, 5.0	99.999%	NI 5.0SP	T, K	1	3	1	2	1	2	-	-	-	-	-
Vehicle Emission Zero, 4.8	99.998%	NI 4.8VE	T, K, AS, AQ	0.5	1	1	0.5	0.1	-	0.1	-	-	-	-
Zero, 4.8	99.998%	NI 4.8Z	T, K,	4	3	-	-	0.5	-	-	-	-	-	-
High Purity, 4.8	99.998%	NI 4.8	6K, 3K, T, K,	5	3	-	-	-	-	-	-	-	-	-

Concentrations given are ppm by volume unless otherwise specified.
Maximum ppm unless otherwise noted.

⁽¹⁾ No peaks exceed the equivalent of 500 ppt Halogens.

⁽²⁾ No peaks exceed the equivalent of 50 ppt Halogens.

⁽³⁾ Can be individually analyzed for customer selected VOC components.



See next page for Nitrogen cylinder specifications and equipment recommendations.

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General Description

Colorless, odorless, nonflammable inert gas.

Cylinders

Cylinder Type	Style	Size in (cm)	Connection CGA/DISS	Pressure psig (bar)	Volume ft ³ (m ³)	Gross Weight lb (kg)
6K	Ultra High Pressure Steel	51 x 10 (129.5 x 24.4)	677	6000 (460)	488 (13.53)	340 (154)
4K	Ultra High Pressure Steel	91 x 9.3 (129.5 x 23.5)	680	4500 (310)	430 (11.92)	179 (81)
3K	Ultra High Pressure Steel	51 x 10 (129.5 x 24.4)	680	3500 (268)	341 (9.49)	213 (97)
T	High Pressure Steel	55 x 9.3 (139.7 x 23.5)	580/718	2640 (183)	304 (8.43)	165 (75)
K	High Pressure Steel	51 x 9 (129.5 x 22.9)	580/718	2200 (154)	228 (6.32)	149 (68)
Q	High Pressure Steel	31 x 7 (78.7 x 17.8)	580/718	2200 (154)	76 (2.11)	69 (31)
AT	High Pressure Aluminum	54 x 10 (137.2 x 25.4)	580/718	2200 (154)	250 (6.93)	108 (49)
AS	High Pressure Aluminum	48 x 8 (121.9 x 20.3)	580/718	2000 (139)	142 (3.94)	60 (27)
AQ	High Pressure Aluminum	33 x 7.3 (83.8 x 18.4)	580/718	2200 (154)	82 (2.27)	46 (21)
A3	High Pressure Aluminum	16 x 6.9 (40.6 x 17.5)	580/718	2200 (154)	31 (0.86)	20 (9)

Cylinder packs and tube trailers are available upon request

Equipment Recommendations

Research, 6.0	Valve panels, 4000 and 3000 series regulators
Chromatography, 6.0	Valve panels, 4000 and 3000 series regulators
Semiconductor, 6.0	Valve panels, 4000 and 3000 series regulators
CEM, 5.5	3000 series regulators
Trace Analytical Grade, 5.5	3000 series regulators
LaserStar, 5.5	3000 series regulators
Semiconductor, 5.5	3000 series regulators
Ultra High Purity Plus, 5.3	3000 series regulators
Ultra Zero Ambient Monitoring, 5.0	3000 series regulators
Volatile Organic Compound Free, 5.0	3000 series regulators
Vehicle Emission Zero (1065), 5.0	3000 series regulators
LaserStar, 5.0	3000 series regulators
Ultra High Purity, 5.0	3000 series regulators
Semiconductor, 5.0	3000 series regulators
Vehicle Emission Zero, 4.8	2000 series regulators
Zero, 4.8	2000 series regulators
High Purity, 4.8	2000 series regulators



4012 Series – Critical Purity Regulators for Corrosive Service (see page E•244)



Products are also available in larger quantities, such as 6-, 12- and 16- pack cylinder clusters as well as dewars, microbulk, tube trailers and bulk.

See page B•85 for cryogenic liquid nitrogen.

See Section D, Medical Gases for Nitrogen – N.F. Grade (page D•233).