

Transportation Information

UN Number: 1070



Shipping Name	Nitrous Oxide	Nitrous Oxide	Nitrous Oxide
Hazard Class	2.2 (5.1)	2.2 (5.1)	2.2
Label	Nonflammable Gas, Oxidizer	Nonflammable Gas, Oxidizer	Nonflammable Gas, Oxidizer

(M)SDS Reference

P-4636

CAS Number

10024 - 97 - 2

General Description

Colorless, odorless, liquefied gas with a slightly sweetish taste and odor.

Product/Grade	Purity	Part Number	Cylinder	O ₂	H ₂ O	N ₂	THC	CO ₂	CO	NH ₃	NO ₂	NO
Semiconductor, 5.5	99.9995%	NS 5.5SP	K, AS	0.5	1	3	0.1	0.5	0.1	0.1	0.1	0.1
Semiconductor, 4.8	99.998%	NS 4.8SP	K, AS	2	3	8	1	2	1	1	1	1
High Purity, 4.0	99.99%	NS 4.0	K	5	3	25	1	10	10	-	-	-
Atomic Absorption, 2.5	99.5%	NS 2.5AA	K	-	-	-	-	-	-	-	-	-

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

Cylinders

Cylinder Type	Style	Size in (cm)	Connection CGA	Pressure psig (bar)	Volume lb (kg)	Gross Weight lb (kg)
K	High Pressure Steel	51 x 9 (129.5 x 22.9)	326/712	745 (51.36)	64 (29)	175 (80)
AS	High Pressure Aluminum	48 x 8 (121.9 x 20.3)	326/712	745 (51.36)	39 (17.7)	87 (39.4)

Equipment Recommendations

Semiconductor, 5.5	Valve panels and 4000 series regulators
Semiconductor, 4.8	Valve panels and 4000 series regulators
High Purity, 4.0	3000 series regulators
Atomic	3000 series regulators
Absorption, 2.5	



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



See Section D, Medical Gases for Nitrous Oxide – U.S.P. Grade (page D•232).

See Sections F and G for safety and technical information.