

Air/Gas Standards

	CGA GRADE A (ANSI/CGA G-7.1, '97)	CGA GRADE D (ANSI/CGA G-7.1, '97)	CGA GRADE E (ANSI/CGA G-7.1, '97)	CGA GRADE J (ANSI/CGA G-7.1, '97)	CGA GRADE L (ANSI/CGA G-7.1, '97)	CGA GRADE N (ANSI/CGA G-7.1, '97)	NFPA 1500 - CGA GRADE D ♦ (ANSI/CGA G-7.1, '97)	NFPA 1500 - CGA GRADE E ♦ (ANSI/CGA G-7.1, '97)	NFPA 1404 ♦ (ANSI/CGA G-7.1, '97)	NFPA 99 ♦ (ANSI/CGA G-7.1, '96, '97)	PADI 5 STAR ★ (ANSI/CGA G-7.1, '97)	CANADIAN (CAN3-Z180, 1-M85)	OSHA CFR 29 (Ch 1910.134, '89)	FEDERAL 11-A (88-A-1034B, '85)	U.S.P. (U.S. PHARMACOPEIA)	O.C.A. (OXYGEN COMPATIBLE AIR) (IANTD/ANDI, '93)	NITROX I	NITROX II	US-NAVY-NAVSEA (NAVSEA 0984-LF-001-9110/15 Feb 93)	AMBIENT-REFERENCE (NORMAL ATMOSPHERIC AIR)
OXYGEN (O2)	19.5-23.5 (%)	19.5-23.5 (%)	20-22 (%)	19.5-23.5 (%)	19.5-23.5 (%)	19.5-23.5 (%)	19.5-23.5 (%)	20-22 (%)	19.5-23.5 (%)	19.5-23.5 (%)	20-22 (%)	19.5-23.5 (%)	19.5-23.5 (%)	20-22 (%)	19.5-23.5 (%)	20-22 (%)	31-33 (%)	35-37 (%)	20-22 (%)	20.9 (%)
Carbon Dioxide (CO2)	—	1000 (PPM)	1000 (PPM)	.5 (PPM)	—	500 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	500 (mL/m3)	1000 (PPM)	500 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	340 (PPM)
Carbon Monoxide (CO)	—	10 (PPM)	10 (PPM)	1 (PPM)	—	10 (PPM)	10 (PPM)	10 (PPM)	10 (PPM)	10 (PPM)	10 (PPM)	5 (mL/m3)	10 (PPM)	10 (PPM)	10 (PPM)	2 (PPM)	10 (PPM)	10 (PPM)	20 (PPM)	.16 (PPM)
Hydrocarbons (CH4) as Methane	—	—	25 (PPM)	.5 (PPM)	—	—	—	25 (PPM)	—	—	25 (PPM)	25 (mL/m3)	—	25 (PPM)	—	25 (PPM)	25 (PPM)	25 (PPM)	25 (PPM)	.16 (PPM)
Water Vapor (H2O)	—	♦ 67 (PPM)	♦ 67 (PPM)	1.08 (PPM)	24 (PPM)	♦ 67 (PPM)	24 (PPM)	24 (PPM)	♦ 67 (PPM)	422 (PPM)	♦ 67 (PPM)	27 (mL/m3)	♦ 67 (PPM)	♦ 67 (PPM)	♦	♦ 67 (PPM)	♦ 67 (PPM)	♦ 67 (PPM)	—	—
Dew Point	—	-50°F	-50°F	-104°F	-65°F	-50°F	-65°F	-65°F	-50°F	-20°F	-50°F	-53°C	-50°F	-50°F	♦	-50°F	-50°F	-50°F	—	—
Oil & Particles	—	5 (mg/m3)	5 (mg/m3)	♦	—	NONE	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	1 (mg/m3)	5 (mg/m3)	5 (mg/m3)	♦	.1 (mg/m3)	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	—
Odor	—	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	—	—
Nitrogen Dioxide (NO2)	—	—	—	.1 (PPM)	—	2.5 (PPM)	—	—	—	—	—	.3 (mL/m3)	—	—	2.5 (PPM)	—	—	—	—	.02 (PPB)
Nitric Oxide (NO)	—	—	—	—	—	2.5 (PPM)	—	—	—	—	—	—	—	—	2.5 (PPM)	—	—	—	—	2 (PPB)
Sulfur Dioxide (SO2)	—	—	—	.1 (PPM)	—	5 (PPM)	—	—	—	—	—	—	—	—	5 (PPM)	—	—	—	—	.02 (PPB)
Hal. Solvents	—	—	—	.1 (PPM)	—	—	—	—	—	—	—	—	—	.2 (PPM)	—	—	—	—	—	—
Acetylene (C2H2)	—	—	—	.05 (PPM)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	.02 (PPB)
Nitrous Oxide (N2O)	—	—	—	.1 (PPM)	—	—	—	—	—	—	—	2.5 (mL/m3)	—	—	—	—	—	—	—	.03 (PPB)
Hal. Hydrocarbons	—	—	—	—	—	—	—	—	—	—	—	5 (mL/m3)	—	—	—	—	—	—	—	—

♦ May vary with intended use. ♦ Not applicable; However is reported. ♦ Quarterly testing is recommended (NFPA). ★ Quarterly testing is required (PADI).
CGA - Compressed Gas Association, **ANSI** - American National Standard, **NFPA** - National Fire Protection Association, **PADI** - Professional Association of Diving Instructors,
OSHA - Occupational Safety & Health Act, **ANDI** - American Nitrox Divers International, **IAINTD** - International Association of Nitrox Technical Divers

Warning: Only laboratory methods are reliable enough to measure to these standards.