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	CGA GRADE A (ANSI/CGA G-7.1-04)	CGA GRADE D (ANSI/CGA G-7.1-04)	CGA GRADE E (ANSI/CGA G-7.1-04)	CGA GRADE J (ANSI/CGA G-7.1-04)	CGA GRADE L (ANSI/CGA G-7.2011)	CGA GRADE N (ANSI/CGA G-7.1-04)	NFPA 99 (ANSI/CGA G-7.1, 2002)	NFPA 1989 - CGA	NFPA 1989 - 03'	NFPA 1989 - 08'	NFPA 1500 - CGA GRADE D (ANSI/CGA G-7.1, 97)	NFPA 1500 - CGA GRADE E (ANSI/CGA G-7.1, 97)	NFPA 1500 - 07'	NFPA 1404 (ANSI/CGA G-7.1, 97)	PADI 5 STAR (ANSI/CGA G-7.1, 97)	CSA - Z180 (CAN3-Z180, 1-N85)	CSA - Z275 (CAN-Z275, 2-04)	OSHA CFR 29 (Ch. 1910.134, 89)	FEDERAL 11-A (89-PA-1034E, 85)	O.C.A. (OXYGEN COMPATIBLE AIR) (AN/DI/ANDI, 95)	NITROX I	NITROX II	US-NAVY-NAVSEA (NAVSEA 0984-LF-001-9110/15 Feb 93)	AMBIENT-REFERENCE (NORMAL ATMOSPHERIC AIR)	
Nitrogen (N)	—	—	—	—	—	—	—	—	75 - 81 (%)	—	—	—	—	—	—	78-80 (%)	78-80 (%)	—	—	—	—	—	—	—	—
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 (%)	19.5-23.5 (%)	19.5-23.5 (%)	19.5-23.5 (%)	19.5-23.5 (%)	20-22 (%)	20-22 (%)	19.5-23.5 (%)	20-22 (%)	20-22 (%)	20-22 (%)	19.5-23.5 (%)	20-22 (%)	20-22 (%)	31-33 (%)	35-37 (%)	20-22 (%)	20.9 (%)	
Carbon Dioxide (CO2)	—	1000 (PPM)	1000 (PPM)	5 (PPM)	1000 (PPM)	500 (PPM)	500 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	1000 (PPM)	500 (mL/m3)	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)	5 (PPM)	10 (PPM)	10 (PPM)	10 (PPM)	10 (PPM)	10 (PPM)	5 (mL/m3)	5 (mL/m3)	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 (PPM)	25 (PPM)	—	25 (PPM)	25 (PPM)	—	25 (PPM)	10 (mL/m3)	10 (mL/m3)	—	25 (PPM)	25 (PPM)	25 (PPM)	25 (PPM)	25 (PPM)	25 (PPM)	16 (PPM)
Water Vapor (H2O)	—	◆ 67 (PPM)	◆ 67 (PPM)	1.0 (PPM)	24 (PPM)	◆ 67 (PPM)	—	24 (PPM)	24 (PPM)	24 (PPM)	24 (PPM)	24 (PPM)	24 (PPM)	◆ 67 (PPM)	◆ 67 (PPM)	27 (mL/m3)	27 (mL/m3)	◆ 67 (PPM)	◆ 67 (PPM)	◆ 67 (PPM)	◆ 67 (PPM)	◆ 67 (PPM)	◆ 67 (PPM)	—	—
Dew Point	—	-50°F	-50°F	-105°F	-65°F	-50°F	39°F	-65°F	-65°F	—	-65°F	-65°F	-65°F	-50°F	-50°F	-53°C	-53°C	-50°F	-50°F	-50°F	-50°F	-50°F	-50°F	—	—
Oil & Particles	—	5 (mg/m3)	5 (mg/m3)	◆	5 (mg/m3)	NONE	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	2 (mg/m3)	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	5 (mg/m3)	1 (mg/m3)	1 (mg/m3)	5 (mg/m3)	5 (mg/m3)	.1 (mg/m3)	5 (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	NONE	NONE	NONE	NONE	NONE	—	—
Nitrogen Dioxide (NO2)	—	—	—	.1 (PPM)	—	2.5 (PPM)	—	—	—	—	—	—	—	—	—	—	.3 (mL/m3)	—	—	—	—	—	—	—	.02 (PPB)
Nitric Oxide (NO)	—	—	—	—	—	2.5 (PPM)	—	—	—	—	—	—	—	—	—	—	2.5 (mL/m3)	—	—	—	—	—	—	—	2 (PPB)
Sulfur Dioxide (SO2)	—	—	—	.1 (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)
Non-CH4 Hydrocarbons	—	—	—	—	—	—	2 (mL/m3)	—	—	—	—	—	—	—	—	5 (mL/m3)	5 (mL/m3)	—	—	—	—	—	—	—	—
Halogenated Hydrocarbons	—	—	—	—	—	—	2 (mL/m3)	—	—	—	—	—	—	—	—	5 (mL/m3)	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, IANTD - International Association of Nitrox Technical Divers

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