

QCD Obsolete Air Quality Standards

Revision Date: 1 Sept 2017

Process Owner: Quality and Compliance Dept.

		BS EN 12021 1998	CGA G-7.1 2004						CSA Z180.1 2000	CSA Z275.2 2011	GSA Fed Spec BB- A-1034B 1985		IANTD/ IAND 2003 Oxygen Compatible Air	NAVSEA 0910-LP- 106-0957 Rev6	NFPA 1404 2013	NFPA 1404 1989	NFPA 1500 2013	NFPA 1500 1997	NFPA 1989 2008	NFPA 99 2002 Contaminants for Med Air	OSHA 29CFR 1910.134 1998			
			Grade A Industrial	Grade L SCBA	Grade D OSHA	Grade E SCUBA	Grade J Specialty	Grade N Med Air USP			Grade A	Grade B												
N2	Nitrogen (%)							78 - 80	78 - 80					Refers to NFPA 1500		Refers to NFPA 1989			75-81		Nitrogen (%)			
O2	Oxygen (%)	20 - 22	19.5 - 23.5	19.5 - 23.5	19.5 - 23.5	20 - 22	19.5 - 23.5	19.5 - 23.5	20 - 22	20 - 22	20 - 22	19 - 23	20 - 22				19.5 - 23.5			19.5 - 23.5	19.5 - 23.5	19.5 - 23.5	19.5 - 23.5	Oxygen (%)
CO2	Carbon Dioxide (ppm)	500		N/A	1000	1000	0.5	500	500	600	500	1000	1000				1000			1000	1000	500	1000	Carbon Dioxide (ppm)
CO	Carbon Monoxide (ppm)	15		N/A	10	10	1	10	5	3	10	10	2				10			10	5	10	10	Carbon Monoxide (ppm)
CH4	Gaseous Hydrocarbons (as Methane) (ppm)					25	0.5	N/A	10	10	25	25	25								25			Gaseous Hydrocarbons (as Methane) (ppm)
H2O	Water Vapor (ppm)	33.96		24	N/A		1		27	27										24		N/A		Water Vapor (ppm)
	Dew Point (°F)	-11C		-65°	N/A		-105°		-63	-63							-65°			-65°		39°	N/A	Dew Point (°F)
NO2	Nitrogen Dioxide (ppm)						0.1	2.5																Nitrogen Dioxide (ppm)
NO	Nitric Oxide (ppm)							2.5																Nitric Oxide (ppm)
SO2	Sulfur Dioxide (ppm)						0.1	5																Sulfur Dioxide (ppm)
C2H2	Acetylene																							Acetylene
N2O	Nitrous Oxide (ppm)						0.1																	Nitrous Oxide (ppm)
	Halogenated Solvents						0.1				0.2	0.2												Halogenated Solvents
	Volatile Non-Methane Hydrocarbons VHC (mL/m ³)							5	5									25				Volatile Non-Methane Hydrocarbons VHC (mL/m ³)		
	Volatile Halogenated Hydrocarbons VHHC (mL/m ³)							5	5											2		Volatile Halogenated Hydrocarbons VHHC (mL/m ³)		
	Oil & Particles (mg/m ³)	0.5		N/A	5	5		None	1	1	0.005	0.005	5	5	5		5	2			5	Oil & Particles (mg/m ³)		
	Odor	None		None	None	None	None	None	None	None	None	None	None	None	None		None	None			None	Odor		
		BS EN 12021 1998	Grade A Industrial	Grade L SCBA	Grade D OSHA	Grade E SCUBA	Grade J Specialty	Grade N Med Air USP	CSA Z180.1 2000	CSA Z275.2 2011	GSA Fed Spec BB-A- 1034B 1985	Oxygen Compatible Air	NAVSEA 0910- LP-106-0957 Rev6	NFPA 1404 2013	NFPA 1404 1989	NFPA 1500 2013	NFPA 1500 1997	NFPA 1989 2008	Contaminants for Med Air	OSHA 29CFR 1910.134 1998				