

BREATHING AIR

SPECIFICATIONS FOR COMPRESSED AIR

Typical Uses	Workplace Requirements per OSHA	Workplace Requirements per BS EN	CSA Z180.1-00	AS/NZS 1415	Industrial Workplace	Firefighting Hazmat	Diving	Fire Fighting	Diving	Diving	Commercial Diving	Medical Air
TRI's Air Standard Code	72	B55	B61/C46	D71/D72	02	89	06	68	05	A29/A15	81L	48
INDUSTRY SPECIFICATION NAME	OSHA 1910.134 Compressor Supplied Air (CGA Grade D + Moisture)	BS EN 12021:2014	CSA Z180.1-00	AS-NZS 1715	CGA COMMODITY SPEC. FOR AIR ANSI/CGA G-7.1-2004	NATIONAL FIRE PROTECTION ASSOCIATION NFPA 1989, 2011 EDITION FIRE FIGHTING BREATHING AIR	CGA COMMODITY SPEC. FOR AIR ANSI/CGA G-7.1-2004	CGA COMMODITY SPEC. FOR AIR ANSI/CGA G-7.1-2004	PROFESSIONAL ASSOCIATION OF DIVING INSTRUCTORS	NAVSEA US NAVY DIVING MANUAL 1999	ASSOCIATION OF DIVING CONTRACTORS, INC. CHAPTER FOUR 1992 (based on 49CFR 197.340 & 1910.430)	USP MEDICAL AIR PURITY
LIMITING CHARACTERISTICS	AIR COMPRESSOR SYSTEMS FOR RESPIRABLE AIR UNITED STATES	AIR COMPRESSOR SYSTEMS FOR RESPIRABLE AIR EUROPEAN	AIR COMPRESSOR SYSTEMS FOR RESPIRABLE AIR CANADA	AIR COMPRESSOR SYSTEMS FOR RESPIRABLE AIR AUSTRALIAN AND NEW ZEALAND	Grade D	NFPA 1989	Grade E	Grade D/L	PADI PURE AIR PROGRAM	US NAVY DIVER'S AIR SAMPLING	AIR COMPRESSOR SYSTEMS FOR RESPIRABLE AIR	USP MEDICAL AIR
Percent Oxygen Balance Predominantly Nitrogen	19.5-23.5	20-22	20-22	19.5-22	19.5-23.5	19.5-23.5	20-22	19.5-23.5	20-22	20-22	19.5-23.5	19.5-23.5
Water, ppm (v/v)	Not Specified	systems >2900 psi 48 systems <2900 psi 68	systems >2216 psi 27 systems <2900 N/A	Cylinders 136 Compressors N/A	Not Specified	24	Not Specified	24	Not Specified	Not Specified	Not Specified	Not Specified
Dewpoint Degrees Fahrenheit	Dew Point 10F below ambient temperature	Not Specified	systems >2216 psi -63°F systems <2900 N/A	Not Specified	Not Specified	Not Specified	Not Specified	-65	Not Specified	Not Specified	Not Specified	Not Specified
Oil (condensed) (mg/m3 at NTP)	5	0.5	1.0 combined with particulate	1	5	2	5	5	5	5 Combined with Particulate	5 Combined with Particulate	0.1*
Particulates mg/m3	Not Specified	Not Specified	1.0 combined with oil	Not Specified	Not Specified	2	Not Specified	Not Specified	Not Specified	5 Combined with Oil	Not Specified	Not Specified
Carbon Monoxide ppm	10	5	5	10	10	5	10	10	10	10	10	10
Odor	Not Pronounced	Not Specified	Not Objectionable	Not Pronounced	Not Pronounced	Not Pronounced	Not Pronounced	Not Pronounced	Not Pronounced	Not Objectionable	Not Objectionable	Not Appreciable
Carbon Dioxide ppm	1000	500	600	800	1000	1000	1000	1000	1000	1000	1000	500
Total Volatile Hydrocarbons (as methane) ppm	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	25	Not Specified	25	25	Not Specified	Not Specified
Nitrogen	Not Specified	Not Specified	78-80%	Not Specified	Not Specified	75-81%	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Nitrogen Dioxide ppm	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	2.5
Nitric Oxide ppm	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	2.5
Sulfur Dioxide ppm	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	5
Halogenated Hydrocarbons ppm	Not Specified	Not Specified	5	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Total Non-Methane Volatile Organic Compounds (VOCs) ppm	Not Specified	Not Specified	5	Not Specified	Not Specified	25	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Frequency Required (Times per year)	Not Specified (based on safety program in place)	X4	X2	X2 with filter change	Not Specified (based on safety program in place)	X4	Not Specified (based on safety program in place)	Not Specified (based on safety program in place)	X4	X2	X2	Not Specified

* TRI Performs a gravimetric procedure to determine oil content with a detection limit of <0.1 mg/m3.