

WAC 296-307-61605 Make sure breathing air and oxygen meet established specifications. (1) The employer must make sure that all SCBAs and air-line respirators are provided with safe breathing air and oxygen according to the following:

Compressed breathing air must meet the following specifications for Grade D air:

- (a) Oxygen (volume/volume) within 19.5-23.5%;
- (b) Hydrocarbon (condensed): NO MORE than five milligrams per cubic meter of air;
- (c) Carbon **monoxide** (CO): NO MORE than ten parts per million (ppm);
- (d) Carbon **dioxide** (CO₂): NO MORE than 1,000 ppm;
- (e) No noticeable odor.

Reference: See the American National Standards Institute - Compressed Gas Association Commodity Specification for Air (G-7.1.1989) for more information. Contact your local library to access a copy.

(2) The employer must make sure the moisture content of the air supplied meets the following:

(a) Air supplied to respirators from cylinders must **NOT** exceed a dew point of -50°F (or -45.6°C) at 1 atmospheric pressure.

(b) Compressor supplied air must **NOT** exceed a dew point of 10°F (or 5.56°C) **BELOW** the use temperature at 1 atmospheric pressure.

(3) The employer must make sure cylinders obtained from a supplier of breathing air must have a certificate of analysis that verifies each cylinder's contents meet Grade D and dew point standards.

(4) The employer must make sure compressed and liquid oxygen meet the United States Pharmacopoeia requirements for medical or breathing oxygen.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 20-21-091, § 296-307-61605, filed 10/20/20, effective 11/20/20; WSR 05-01-166, § 296-307-61605, filed 12/21/04, effective 4/2/05.]