

WAC 296-307-61605 Make sure breathing air and oxygen meet established specifications.

You 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:

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

You must:

- Make sure the moisture content of the air supplied meets the following:
 - Air supplied to respirators from cylinders must **NOT** exceed a dew point of -50°F (or -45.6°C) at 1 atmospheric pressure.
 - Compressor supplied air must **NOT** exceed a dew point of 10°F (or 5.56°C) **BELOW** the use temperature at 1 atmospheric pressure.
- 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.
- Compressed and liquid oxygen must meet the United States Pharmacopoeia requirements for medical or breathing oxygen.

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