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Environmental Gas Standards

MESA Specialty Gases & Equipment employs a number of gas pollution standards, including EPA protocol gas standards, to maintain environmental safety, ensure compliance, and meet regulatory requirements. We manufacture our gases to meet unique environmental gas standards for pollution in the following areas:

- ✓ Standards for CEM and Stack Gas Monitoring
- ✓ Automotive Exhaust Emission Standards
- ✓ Ambient Air Monitoring Standards
- ✓ Low Level NO Mixtures
- ✓ EPA Protocol Gases

The following list indicates the most common components used in our mixtures, which are designed to meet EPA protocol for environmental gas standards and other gas pollution standards. If you do not see the component you require, please [contact us](#) to check availability:

- ✓ AMMONIA
- ✓ CARBON DIOXIDE
- ✓ HYDROGEN SULFIDE
- ✓ METHANE
- ✓ NITRIC OXIDE
- ✓ OXYGEN
- ✓ PROPANE
- ✓ SULFUR DIOXIDE
- ✓ VARIOUS MERCAPTANS

Pollution

Air pollution is the presence of any chemical, physical (e.g., particulate matter), or biological agent that modifies the natural characteristics of the atmosphere. The atmosphere is a complex, dynamic, natural gaseous system that is essential to support life on Earth.

Enforced air quality standards, like the Clean Air Act in the United States, have reduced the presence of some pollutants. While major stationary sources like factories and industrial plants are often associated with air pollution, the greatest sources of emissions are actually mobile sources—primarily cars. There are many air pollution control technologies and urban planning strategies available to reduce air pollution; however, the worldwide costs of addressing this issue are high.

Sources

Air pollutants are classified as either directly released or formed by subsequent chemical reactions. A direct release air pollutant is one that is emitted directly from a given source, such as the carbon monoxide or sulfur dioxide, all of which are byproducts of combustion; whereas, a subsequent air pollutant is formed in the atmosphere through chemical reactions involving direct release pollutants. The formation of ozone in photochemical smog is the most important example of a subsequent air pollutant.

- ✓ Anthropogenic sources (human activity) related to burning different kinds of fuel
- ✓ Combustion-fired power plants
- ✓ Controlled burn practices used in agriculture and forestry management
- ✓ Motor vehicles generating air pollution emissions
- ✓ Marine vessels, such as container ships or cruise ships, and related port air emissions
- ✓ Burning fossil fuels
- ✓ Burning wood, fireplaces, stoves, furnaces and incinerators
- ✓ Other anthropogenic sources
- ✓ Oil refining, power plant operation and industrial activity in general

- ✓ Chemicals, dust and crop waste burning in farming
- ✓ Fumes from paint, varnish, aerosol sprays and other solvents
- ✓ Waste deposition in landfills, which generate methane
- ✓ Natural Sources
- ✓ Dust from natural sources, usually large areas of land with little or no vegetation
- ✓ Methane, emitted by the digestion of food by animals, for example cattle
- ✓ Pine trees, which emit volatile organic compounds (VOCs)
- ✓ Radon gas from radioactive decay within the Earth's crust
- ✓ Smoke and carbon monoxide from wildfires
- ✓ Volcanic activity, which produce sulfur, chlorine, and ash particulates

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See: www.P65warnings.ca.gov for additional information.