

# **Mining Industry** Gases & Equipment



## **Calibration Gases**

Zero Air  
Methane  
Carbon Monoxide  
Nitrogen Dioxide

## **Air Toxics Monitoring**

Solaris Gas Detectors  
Calibration Gas

## **Gas Delivery**

Single Stage Regulators  
Two Stage Regulators  
Protocol Stations  
Automatic Switch-Over  
Manifolds

## **Safety**

Personal Protective Equipment  
Cylinder Carts  
Cylinder Storage Cabinets

## **Welding Equipment**

Sales & Rental  
Welders/Generators  
MIG  
TIG  
Plasma

## **Authorized Repair Centers**



# SPECIALTY GASES

# Total Support...

**our business revolves around you**



We provide customer-focused solutions that will help you achieve your goals. Our sales representatives will help you determine the best product, cylinder size, delivery method and delivery time that controls your cost.

That's just the beginning, we don't stop there. Ease of doing business, gas and cylinder safety training, courteous customer service and delivery, attractive cylinders, it's all part of the total support you'll receive.

**Give us a call, you'll be glad you did.**

**800.967.6874  [awggases.com](http://awggases.com)**

# Meet The Family

# ecosmart™

refillable cylinder

44es

Identical in size to a standard 34-liter cylinder, the NEW 44 contains 29% more gas than a traditional 34-liter!

58es

This light weight portable cylinder is easier to manage than the traditional bigger 58-liter!

66es

Containing 66 liters of precision calibration gas, this NEW cylinder is 40% smaller than a standard 58-liter cylinder and features 10% more gas!

116es

The ecosmart 116L delivers twice as much calibration gas than the disposable 58-liter!

650es

Refillable aluminum cylinder with carrying handle. 5.25" Diameter, 19.25" Tall, 15.8 lbs with valve  
Pressure = 1650psi, 22.8 Cu. Ft., 5.77L Water Capacity

All Cylinders are Available in Both Standard Disposable and ecosmart Refillable Formats.

What does your environment need?  
There is an eco cylinder for everyone!



— Calibration Gas —

Products you need from the people you trust!



800.967.6874  [awggases.com](http://awggases.com)

# Schedule your Safety Seminar...

Our safety seminars are designed to promote a safe environment for your employees that use compressed and/or cryogenic gas products. We discuss basic compressed and cryogenic safe practices and also delve into selecting the right equipment for the right application. The seminar last between 40-45 minutes with questions and individual consultation following.

## Satisfied Customer Review

"Thank you again for your time and talent given in preparing an excellent, informative, and very important session for the employees at the Center for Applied Energy Research, it was appreciated."

Ruthann Chaplin REHS/RS  
EHS Specialist  
Center for Applied Energy Research  
University of Kentucky



# Ask about Solaris Detectors



The Solaris Multigas Detector is an affordable, durable, reliable, easy-to-use portable instrument for detecting the presence of O<sub>2</sub>, H<sub>2</sub>S, CO and combustible gas.

## Features

- **Ergonomic Design**-For maximum comfort.
- **Alarm System**-World-class triple alarm system with 100+ decibel audible alarm, multiple high-intensity visual alarm and strong vibrating alarm.
- **Display Features**-Superior display features simultaneous gas concentration display, backlighting for easy reading and alphanumeric message bar for easy use.
- **Lightweight**-Under 8 oz., compact size that makes it easy to wear.
- **Durable**-Case with rubberized armor provides superior protection against liquid and dust ingress (IP 65 rated).
- **Long-life Battery**-Rechargeable lithium ion battery provides 14+ hours of continuous run time and delivers best-in-class performance in extreme conditions.
- **Galaxy Compatible**-Compatibility for computer automated calibration and record-keeping.
- **Sampling Pump Option**-Optional powered sampling pump with extensive contaminant filtering system.
- **Warranty**-Outstanding 2-year, all-inclusive warranty.

800.967.6874  [awggases.com](http://awggases.com)

# Gas Monitoring Safety...

## The Importance of Calibrating Gas Monitoring Instruments

It is vital to worker safety that gas monitoring instruments are calibrated regularly. Only properly calibrated gas monitoring instruments ensure worker safety from unseen atmospheric hazards.

### When Do I Use Gas Detection Instruments?

Whenever a worker enters an area with potential atmospheric hazards, gas detectors are to be used. Gas detection instruments are used to detect the presence of toxic and combustible gases, as well as oxygen deficiency or oxygen enrichment.

### Why Should I Calibrate?

Calibrating a gas detector sets the gas reference points to activate the alarms. Good gas monitors with poor calibration can result in severe bodily damage and even death.

### Avoiding "Calibration Shift"

Occasionally an instrument's gas reference point will shift. The reading will shift accordingly and be unreliable. This is called "calibration drift" and it happens to all detectors over time. Regular calibration with a certified standard gas concentration will ensure that the instrument will produce continued, accurate readings.

### Where Should I Calibrate?

Calibrating gas detectors at locations where the equipment is to be used is always preferable. Electrochemical sensor response will be different (lower or higher) depending on the actual environmental conditions.

### Alarms on Gas Detection Instruments

Most instruments are equipped with two levels of alarms – warning and danger. The warning alarm is for the detection of a gas level that is potentially hazardous. The danger alarm indicates a gas concentration at the "hazard" threshold.

### I want to know more...

Contact us today about AWG specialty gas services.



# Don't Limit Your Calibration

## bump up to refillable aluminum cylinders

AWG can supply the same calibration gas contained in disposable cylinders in refillable aluminum cylinders.

**A lot more gas in each cylinder = huge cost savings.**

A 58 liter disposable cylinder has 2 cubic feet of gas. A size AL50 refillable cylinder has 140 cubic feet! That is the same volume as 70 disposables.

Let us discuss various options for a bump station with you using larger refillable cylinders and enjoy an efficient, lower cost, green alternative to disposable cylinders.

### **Benefits:**

- Lower Cost
- Reduce Waste
- More Efficient
- Environmentally Friendly



# Specialty Gas...

## get it right, right away



### The quality you need –

AWG offers highly specialized gas mixtures for a wide variety of markets and industries. From Continuous Emissions Monitoring for the Power Generation industry to precise custom blended gases for synthetic fuel research and production. AWG is your single source for all of your specialty gases and equipment.



### Delivered as you want it –

Our State-of-the-Art Laboratory can produce a wide variety of pure and mixed gases in purities up to grade 5.5 (99.9995). We routinely produce pure and custom mixed gases for University Research, Healthcare, Industrial and Pharmaceutical Companies.

**When you want it** – Because we have our own laboratory, we can be very responsive to our customer's needs. Need a custom gas in a rush? Tell us what you need.

We're ready to serve.

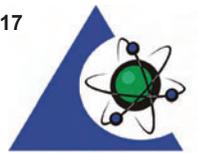


American Welding & Gas, Inc.  
664 Magnolia Avenue, Lexington, KY 40505



**PJLA**  
Calibration  
Accreditation# 70946

ISO/IEC 17025:2017

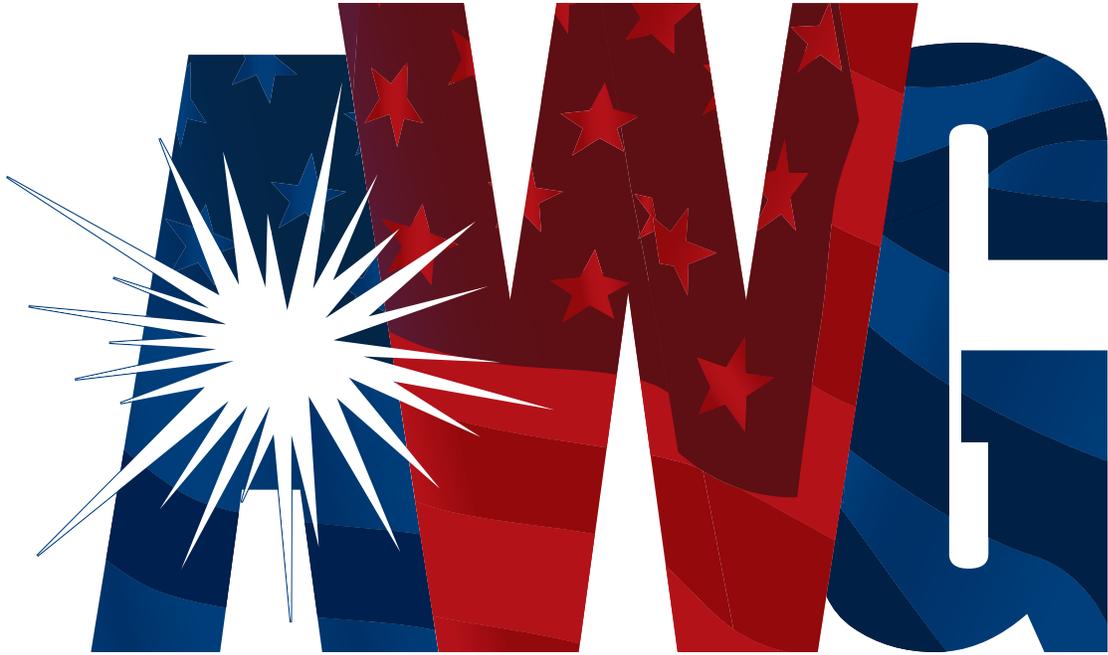


**PJLA**  
Testing  
Accreditation# 70946



Pure Gases Calibration Gases Special Application Mixtures Semi Conductor Gases Gas Delivery Equipment

**800.967.6874**  **awggases.com**



*Find a* .....  
**LOCATION**  
.....*near you on*  
**[www.awggases.com](http://www.awggases.com)**

