

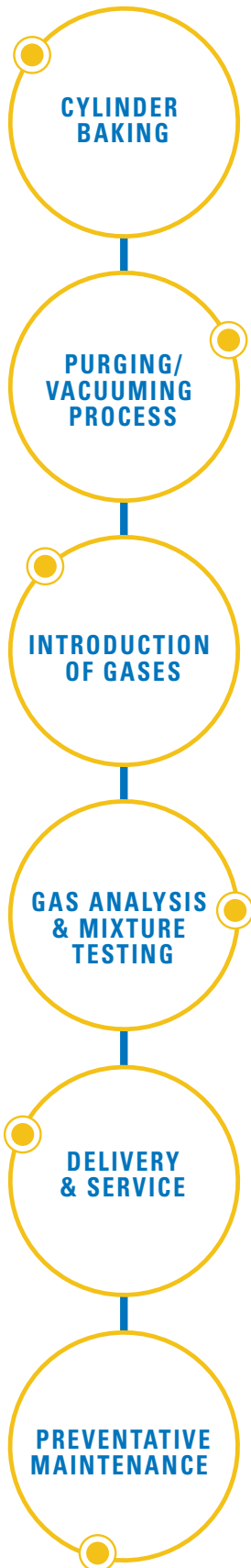
# Specialty Gases & CryoStorage Equipment

**THE MIDDLESEX SOLUTION  
FOR THE SPECIALTY GAS INDUSTRY**



TECHNOLOGY. SAFETY. RESULTS.





## AN UNPARALLELED PREPARATION PROCESS

- 1. Cylinder Baking:** Cylinders are baked at 140°F for eight hours in a bake-out oven.
- 2. Purge/Vacuum System:** While in the bake-out oven, cylinders are purged with Ultra High Purity gases and then vacuumed out. The purge/vacuum process is repeated multiple times during the baking process. In the end, the walls of the cylinders have been stripped completely of any contamination.
- 3. Introduction of Ultra High Purity Gases:** The Ultra High Purity gases that your lab depends on can be safely introduced to the baked cylinders. We also use a packless diaphragm cylinder valve to eliminate gas leakage.
- 4. Gas Analysis:** Cylinders are tested to ensure product purity levels are met. We ensure purity levels for Primary Standard, Certified, Ultra High Purity and medical device gases.
- 5. Mixture Testing & Analysis:** Cylinders are first weighed on our top-of-the-line gravimetric scale to guarantee proper mixture proportions. Once the correct proportions are confirmed, the cylinder goes to the Gas Chromatograph to test for proper purity levels and mix parameters. Finally, the cylinder receives a Certificate of Analysis.
- 6. Automated Rolling System:** Cylinders that contain mixed gas solutions are placed on an automatic rolling system to ensure that gases remain 100 percent homogenized.
- 7. From Our Lab to Yours:** After being thoroughly tested, cylinders are ready to be delivered to your operation.
  - All cylinders managed with a bar-coding and tagging system for full visibility of usage patterns and more
  - Cylinders delivered directly to the end-user – not to a loading dock!

Introducing impure or inaccurate gases to your operation can bring your business to a standstill and cost considerable dollars in downtime, man-hours and duplicated processes. Middlesex utilizes many quality checks in our filling process to eliminate that risk, so you can rest assured that your lab is running safely, efficiently and to the best of its ability 24/7/365.

## THE MIDDLESEX SPECIALTY GAS ADVANTAGE

With over 25 years of experience in the specialty gas industry, Middlesex Gases & Technologies is New England's leading manufacturer and distributor of Specialty Gases and CryoStorage Equipment. Since its inception in 1949, Middlesex has proven itself to be a trusted and reliable leader in the specialty gas industry. Our innovative technology and responsive team can engineer and install turnkey gas systems to streamline your business and make your operation safer and more efficient.

Family-owned for over 50 years, Middlesex Gases & Technologies provides you with the unprecedented level of customer service and dependability that only a family-owned company can deliver.

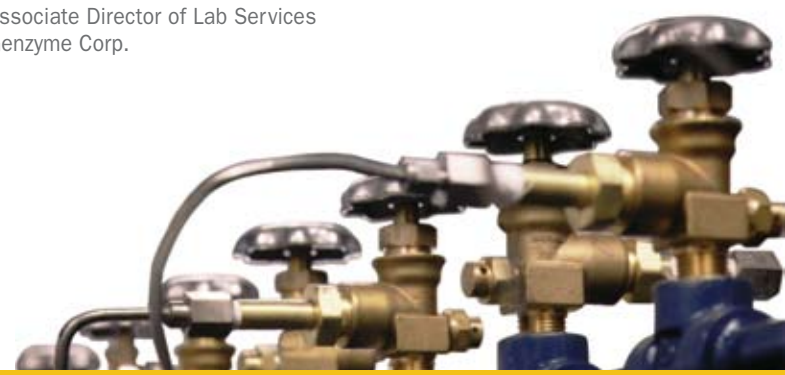
The benefits of working with Middlesex Gases & Technologies ensure that your operation never skips a beat!

- Expert Technical Support Team
- Cylinder Bar-Coding & Management System
- Next Day Delivery
- Dedicated Drivers
- Local, Centralized Services
- Cost Center Control

Middlesex also offers beneficial service programs, such as safety/technology audits and preventative maintenance programs!

*“Middlesex Gases & Technologies has clearly been the leader in providing creative solutions to our specialty gas requirements over the last four years. There has been a considerable cost savings realized from this MicroBulk system, as well as important safety improvements.”*

Thomas Stack  
Associate Director of Lab Services  
Genzyme Corp.



## SPECIAL SERVICES AND EQUIPMENT FOR YOUR SPECIALTY GAS REQUIREMENTS

Middlesex understands the importance of the purity and accuracy of your specialty gases. Our process guarantees the purity and accuracy of your gases while our comprehensive service and programs increase the safety, efficiency and output of your operation.

### LAB GAS SAFETY/TECHNOLOGY AUDITS

Performed by our experienced staff members, these detailed audits ensure the safety of your lab. Our technicians will check your gas storage methods and recommend the necessary changes if needed to insure proper gas requirements to your specific application. Middlesex also offers on-location Cylinder & Gas Handling Safety Presentations.

### GAS EQUIPMENT & TURNKEY SYSTEM INSTALLATION

Our expert staff knows everything there is to know about specialty gas systems and equipment. After performing a safety/technology audit, we will engineer and install turnkey gas systems that do exactly what you need them to do from day one.

Our full spectrum of specialty gas equipment\* includes:

- Regulators
- Gas Purifiers
- Safety Equipment
- Process Piping
- Manifolds
- Gas Cabinets
- Vacuum Piping Systems
- CryoStorage Units

Also, our revolutionary Auto-Dialer system automatically contacts Middlesex when your gas supply is running low. As soon as Middlesex is notified, we dispatch a truck to deliver fresh stock, so you'll never have to worry about running out of the gases that keep your business running.

\*A full catalog of our Specialty Gas Equipment is available online at [middlesexgases.com](http://middlesexgases.com).

## CRYOSTORAGE SALES AND SERVICES

Middlesex has New England's most diverse selection of CryoStorage refrigerators, dewars, inventory systems and shippers. We offer a full range of CryoStorage systems, and our expert staff members have the complex knowledge you need to find a system that suits your business's diverse needs.

The Middlesex CryoStorage Solution includes:

- Installation, Service & Repair
- Equipment Maintenance Programs
- Unsurpassed Technical Expertise
- Cryogenic Piping, Manifolds and Bulk Systems

Middlesex offers a variety of Preventative Maintenance service plans to ensure that your operation starts off at maximum efficiency and stays that way for the long haul.

### HOW CAN THE BEST BECOME EVEN BETTER?

Middlesex is constantly implementing new technology to enhance our services and programs. Your gas operation requires the newest and most innovative technologies to maintain competitive advantage – and Middlesex will make sure that you have them.

Our business is your business, so as you grow, we do, too. You can count on us to be aware of new technology first, so you can stay ahead of the game in your highly competitive industry.





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