



Gases, Technologies, and Services to Help You Succeed.

For over 75 years, Air Products' customers have counted on us to deliver more than just gases. Our unique understanding of the industries we serve has delivered more uptime, lowered long-term costs, raised productivity, and enhanced safety.



Our approach to customer relationships is based on understanding your needs first. That way we can offer the right gases, technologies, and services to help you compete more effectively.

Customer Services

- 24/7 Customer Service Center **800-224-2724**
- Technical Information Center **800-752-1597** or gastech@airproducts.com
- APDirect® Customer Portal www.airproducts.com/apdirect
- Online Fact Book www.airproducts.com/factbook

Express/Emergency Services

- Temporary or emergency nitrogen and hydrogen supply (APEX Express Service) **800-273-9427**
- Emergency Response **800-523-9374**

Safety Services

- Material Safety Data Sheets www.airproducts.com/msds
- Safetygrams www.airproducts.com/safetygrams
- Safety awareness/process training
- Refresher training
- SARA 312 compliance

Technical Services

- Analytical services
- Computational modeling
- Engineering design and support
- 24/7 equipment maintenance and repair
- Gas management
- Installation, start-up, and upgrade services
- KeepCOLD® MRI services
- On-site generated gases unit operations
- Operator training
- Plant services for customer owned plants
- Process optimization and efficiency audits
- Purity and flow verification
- Site services—inspections, troubleshooting, de-icing, tank cooldowns, etc.
- TELALERT® tank telemetry

Modes of Supply

Delivered Gas

- High-pressure hydril tubes

Delivered Liquefied Gas

- Cryoease® microbulk on-site storage tanks
- Liquid bulk storage and vaporization
- APEX mobile nitrogen and hydrogen pumping systems

On-site Generation

(Sale of Gas or Sale of Equipment)

- PRISM® pressure and vacuum swing adsorption systems (N₂ and O₂)
- PRISM on-site hydrogen generation systems
- On-site cryogenic plants

Pipeline Supply

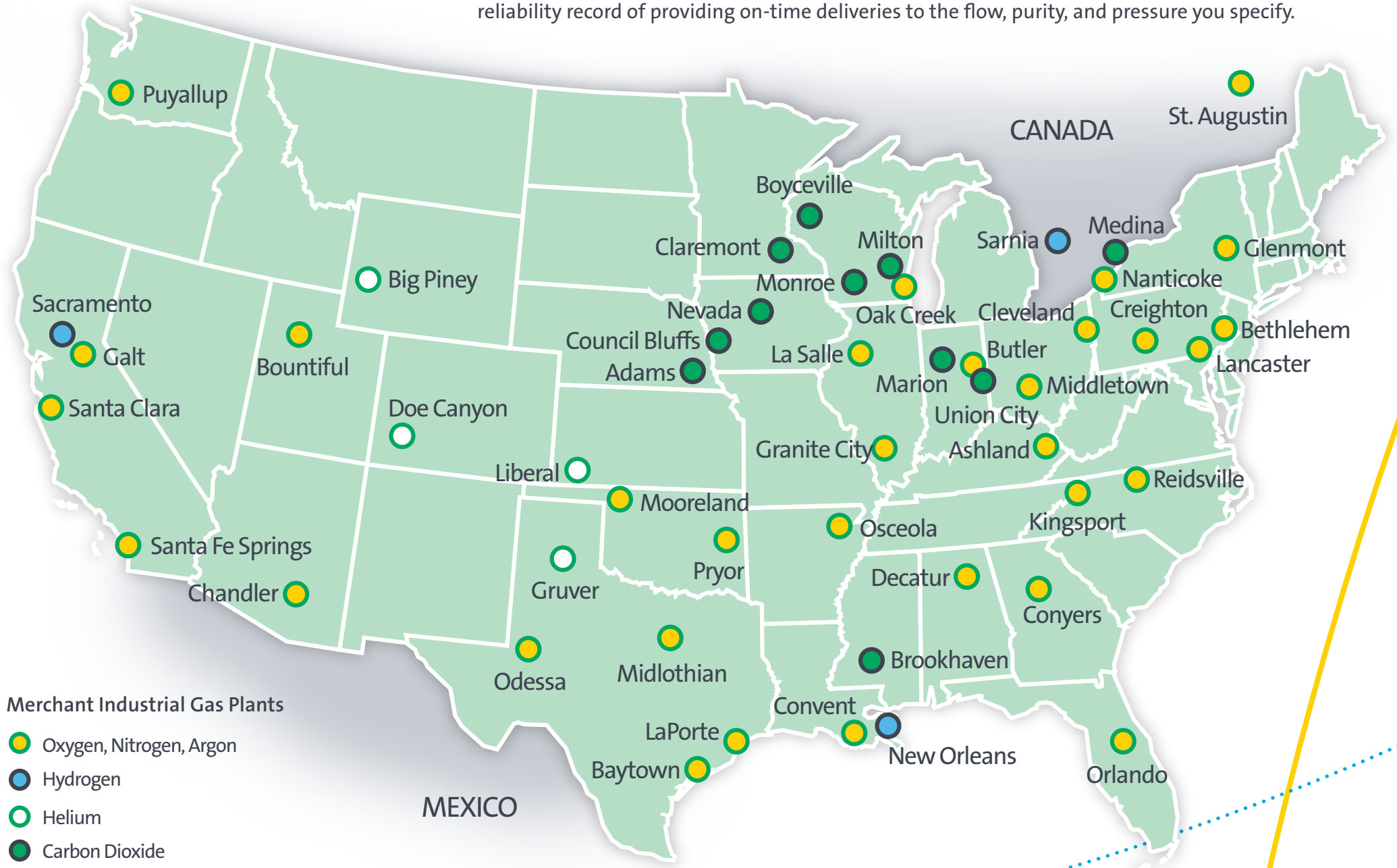
Equipment and Technologies

- Cleanfire® oxy-fuel technologies for glass
- Cryo-Condap® solvent recovery
- Cryogenic hydrogen compressor
- Flammability analysis
- Freshline® food packaging, cooling, chilling, and freezing technologies
- Halia™ wastewater solutions
- SmartFuel® high-pressure hydrogen dispensers
- Inert wave soldering
- KeepCOLD® MRI filling & maintenance services
- SmartFuel® mobile fueler hydrogen supply
- PolarFit™ ultra-fine-grinding mill
- Proprietary combustion and oxygen enrichment technologies
- Solutions for metals processing/heat treating

Gas Applications Labs

- Food freezing
- Clean energy
- Large combustion
- Cryogrinding
- Metals processing
- Hydrogen reactions
- Advanced controls
- Deflashing
- Electronics packaging

An extensive industrial gas plant network . . . dedicated to maintaining our 99.95% reliability record of providing on-time deliveries to the flow, purity, and pressure you specify.



To discuss your gas need or request a quote:

Call 800-654-4567

Email gigmrktg@airproducts.com



Industrial, Medical and Specialty Gases for Diverse Applications

Argon

- Blanketing/inerting
- Degassing
- Electronic package sealing
- Glass filling
- Glass-tin bath atmosphere
- Hot isostatic processing
- Metal refining
- Metals heat treating
- Plasma arc cutting
- Plasma cleaning
- Powder atomization
- Pressure testing
- Purging
- Quenching
- Silicon ingot inerting
- Stirring
- Thermal spray
- Welding

CO₂

- Beverage carbonation
- CO₂ Snowing
- Dry ice
- Enhanced Oil Recovery (EOR)
- Flame suppression
- Food freezing, cooling, chilling
- Food packaging
- Greenhouse growing
- Laser cutting
- Machine or parts cooling
- Metal shrouding
- Modified atmosphere packaging (MAP)
- pH neutralization
- Pellet blasting
- Pulp washing (paper)
- Reactant or catalyst chemical
- Remineralization
- Supercritical CO₂ with solvents
- Steel bottom stirring
- Tower cleaning
- Wafer cleaning
- Welding shielding

Helium

- Airbags
- Analytical
- Balloon inflation
- Breathing atmospheres
- Fiber optics cooling and shielding
- Glass coating (carrier gas)
- Glass refining (bubbling)
- Inerting
- Lasers
- Leak detection
- LED/compound semiconductors
- Lifting
- MRI magnet cooling and filling
- Oil and gas-offshore
- Pressurizing/purging
- Quenching
- Scientific/NMR
- Silicon wafer processing
- Thermal spray

Hydrogen

- Catalyst regeneration
- Flame cutting, polishing
- Fuel cells
- Glass melting/softening
- Glass-tin bath atmosphere
- Hydrogenation
- Hydrotreating
- Hydroprocessing
- Integrated circuit fabrication
- Metals heat treating
- Reducing atmospheres
- Rocket propulsion
- Thermal spray
- Turbine cooling
- Welding/cutting

Nitrogen

- Blanketing/inerting
- Carrier gas
- Cryogenic cooling
- Cryogenic grinding
- Cryopreservation cryotherapy
- Curing
- Deflashing
- Drying
- Electronics soldering
- Food freezing, cooling, chilling
- Food packaging
- Laser cutting
- Machining
- Materials testing
- Metals processing/heat treating
- MRI magnet cooling and filling
- Oilfield services/fracking
- Plant commissioning
- Pressure testing
- Process cooling
- Purging
- Reaction cooling
- Slag splashing
- Stirring
- Thermal spray cooling

Oxygen

- Breathing (medical gas)
- Combustion
- Cutting/welding
- Fermentation
- Hyperbaric oxygen therapy
- Oxygen enrichment
- Oxidation
- Ozone generation
- Plasma cleaning
- Pulp bleaching (paper)
- Respiratory therapy (medical grade)
- Rocket propulsion
- Thermal spray
- Wastewater treatment

Xenon/Krypton/Neon

(used in various industries)

- Aerospace
- Electronics
- Glass
- Lasers
- Lighting
- Medical

Industries Served

- Aerospace
- Agriculture/aquaculture
- Automotive/transportation
- Cement and lime
- Chemical processing
- Construction equipment
- Electronics assembly/packaging
- Electronics/semiconductors
- Energy/bioenergy
- Food/beverage
- Glass
- Healthcare
- Iron/steel production
- Metals fabrication
- Metals processing
- Mining
- Non-ferrous metals production
- Oil/gas production
- Petrochemicals
- Petroleum refining
- Pharmaceuticals/biotechnology
- Pipelines
- Power generation/utilities
- Pulp/paper
- Recycling/reclamation
- Research/analytical
- Rubber/plastics
- Water/wastewater

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