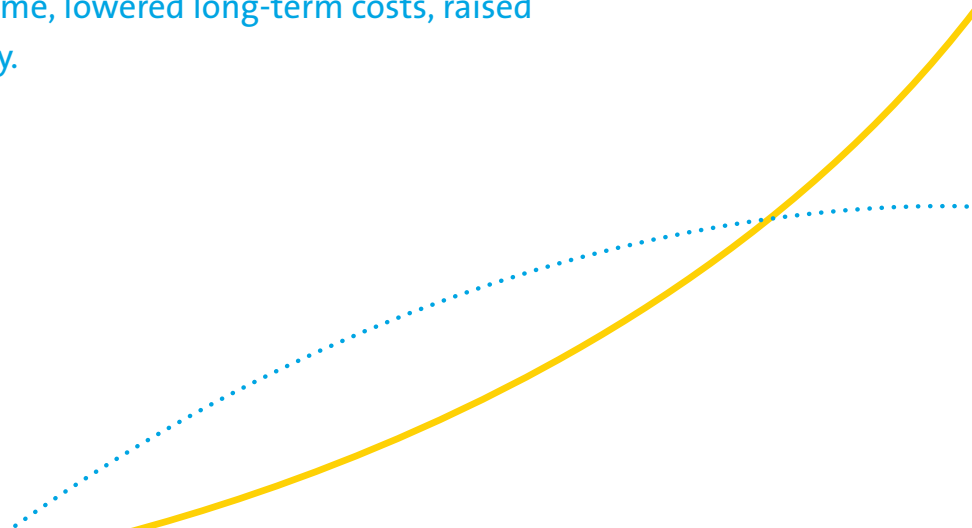




# Gases, Technologies, and Services to Help You Succeed

For more than 80 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.



# 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

## 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
- 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
- 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

## 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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