Gases, Technologies, and Services that Meet Your Needs

At Air Products we take a different approach to delivering value to our customers. Our people work hard to learn your business at all levels, so we can build a deep understanding of your needs. That way, we can offer the right gases, technologies, and services to help you compete more effectively.

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

**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
- Process optimization and efficiency audits
- Purity and flow verification
- Site services—inspections, troubleshooting, deicing, tank cooldowns, etc.
- TELALERT® tank telemetry

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

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

**Modes of Supply**

**Delivered Gas**
- High-pressure hydri1 tubes

**Delivered Liquefied Gas**
- Liquid cylinders
- Microbulk on-site storage tanks
- Liquid bulk storage and vaporization
- APEX mobile nitrogen and hydrogen pumping systems

**On-site Generation**
- PRISM® pressure and vacuum swing adsorption systems
- 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
- High-pressure hydrogen dispensers
- Inert wave soldering
- Mobile fueler hydrogen supply
- PolarFit™ ultra-fine-grinding mill
- Proprietary combustion and oxygen enrichment technologies
- Solutions for metals processing/heat treating
Industrial and Medical Gases for Diverse Applications

Argon
• Blanketing/inerting
• Degassing
• Heat treating
• Metal refining
• Metals processing/heat treating
• Plasma arc cutting
• Plasma cleaning
• Powder atomization
• Pressure testing
• Protective atmosphere
• Purging
• Quenching
• Silicone ingot inerting
• Stirring
• Thermal spray
• Welding

Nitrogen
• Carrier gas
• Cryogenic cooling
• Cryogenic grinding
• Curing
• Deflashing
• Drying
• Electronics soldering
• Food freezing, cooling, chilling
• Food packaging
• Inerting/blanketing
• Laser cutting
• Machining
• Magnetic resonance imaging
• Materials testing
• Metals processing/heat treating
• Oilfield services
• Plant commissioning
• Plant trials
• Pressure testing
• Process cooling
• Product displacement
• Protective atmosphere
• Purging
• Reaction cooling
• Sparging

Helium
• Diving
• Inerting
• Leak detection
• Lifting
• Metals processing/heat treating
• Quenching
• Semiconductors
• Superconducting (magnetic resonance imaging)
• Thermal spray
• Welding

Hydrogen
• Catalyst regeneration
• Controlled atmosphere in circuit production
• Flame cutting, polishing
• Fuel cells
• Hydrogenation
• Hydrotreating
• Metals processing/heat treating
• Production trials
• Protective atmospheres
• Reducing atmospheres
• Rocket propulsion
• Thermal spray
• Turbine cooling
• Welding/cutting

Oxygen
• Atmosphere enrichment
• Breathing (medical gas)
• Combustion
• Cutting/welding
• Fermentation
• Oxidation
• Ozone generation
• Plasma cleaning
• Pulp bleaching
• Respiratory therapy (medical grade)
• Rocket propulsion
• 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
• Pharmaceuticals/biotechnology
• Pipelines
• Power generation/utilities
• Pulp/paper
• Recycling/reclamation
• Refining
• Research/analytical
• Rubber/plastics
• Water/wastewater

tell me more

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