

Solutions for Metals Processing



“At Air Products, our focus is to ensure you can apply industrial gas in your process safely and efficiently, so you can improve product quality, and productivity, the most important is - save your money.”

Wayne Chen
Asia Metals Processing
Applications Manager
Air Products



Expertise beyond gas production and delivery

Whether you're annealing, sintering, brazing, carburizing, vacuum-treating, thermal spraying, or welding metal parts, Air Products offers high-purity gases, gas handling equipment and technology; international supply capability and—most importantly—unmatched industry experience and technical support to help you succeed.

For over 50 years, heat treaters and the metals processing industry around the world have come to rely on Air Products' industrial gases and gas atmospheres to help improve product quality and consistency, plus reduce cost.

You can count on us beyond reliable gas supply. Our global team of gas application engineers; R&D personnel; and process control, safety, and design specialists understand the issues and challenges you face. They've used their expertise to develop innovative technologies and services that can help optimize your operation. Our application engineers can work with you to fully understand your particular needs and then recommend technologies that can help you save money and operate more efficiently.



Industrial Gas and Atmosphere Supply

- Liquid, bulk and cylinder industrial gas supply (nitrogen, hydrogen, argon, helium, oxygen, specialty gases)
- CryoEase® microbulk industrial gas supply for smaller users (nitrogen, argon, oxygen)
- On-site gas generation
- High-pressure gas supply systems

Technologies and Equipment

- Advanced process controls
- Gas blending
- Analytical panels
- Process management and monitoring systems
- Thermal spray cooling technology
- Safety monitoring systems
- Gas recycle and recovery systems
- Combustion technologies
- Atmosphere monitoring systems
- Flow control panels

Services

- Furnace atmosphere analysis
- Leak detection audits and repair
- Gas equipment operator training
- Process efficiency and optimization audits
- Safety training for gas handling and usage
- Cutting support (laser, plasma, oxy-fuel)
- Metallurgical analysis and consultancy

Asia R&D Capability

Located in the Asia Technology Center in Shanghai, our Metals Processing R&D Laboratory is equipped with heat treatment furnaces, atmosphere analyzers and characterizing instruments to handle various heat treatment atmospheres and processes. The laboratory serves to develop and showcase our new, differentiated gas application technologies for the metals processing industry as well as providing technical services to our customers.

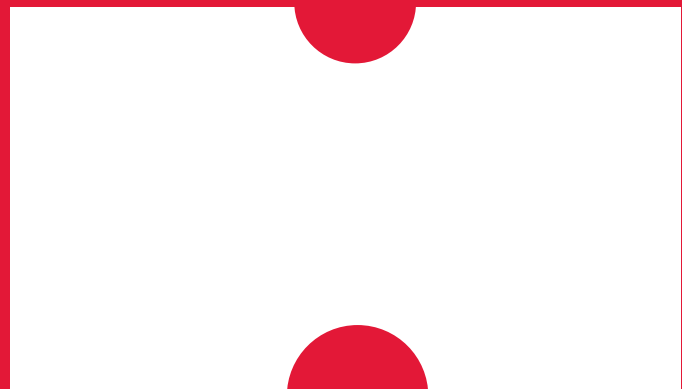


***Supporting
Applications
that Include:***

- Annealing
- Carburizing
- Nitriding
- Neutral Hardening
- Cutting
- Welding
- Sintering
- Thermal Spray
- Brazing
- Quenching
- Powder Atomization
- Inerting/Blanketing
- Reduction
- Composite Curing – Autoclave

***Serving Markets
that Include:***

- Aerospace
- Automotive
- Heavy Equipment
- Energy and Utilities
- Ship Building
- Lawn and Garden
- Medical
- Commercial and Captive Heat Treating



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For More Information

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