



JINHONG GAS CO.,LTD.

NO.1 National Brand in Gas Industry of China



COMPANY OVERVIEW >>

Founded in 1999, JinHong Gas Co., Ltd. is a comprehensive gas solutions provider specializing in R&D, production, sales, and services. Headquartered in Xiangcheng District, Suzhou, China, with a strong focus on safety, health, environment, and quality, JinHong Gas has been listed on the SSE STAR Market since June 2020 (Stock Code: 688106). Through years of development, JinHong Gas has established over 60 subsidiaries, adopting a group management structure, and is committed to becoming the leading national brand in the industry, creating exceptional value for customers.

JinHong Gas offers total gas solutions encompassing all types of specialty gases, bulk gases, and LNG. Our services include DG transportation, total gas & chemical management (TGCM), gas system design and installation, on-site gas generation, and third-party cylinder inspection, empowering your business operations.

With gas production facilities in Singapore, Vietnam, and Thailand, we deliver turnkey solutions for your global operations. From technical support to export compliance and cross-border investments, our localized expertise ensures safety and quality for gas export. Join our global journey: forge a future-ready partnership.



ADVANTAGE >>

Large-Scale Cryogenic Equipment

Our large-scale cryogenic equipments, including air separation units and storage tanks, are designed to produce and store liquefied gases efficiently, providing a stable and reliable gas supply for industrial applications.



Wide Range of Gas Options

We offer a diverse selection of gases, including industrial, specialty, and medical gases, to meet the varying needs of different industries and applications.



On-Site Gas Supply

Our on-site gas generators are designed to produce high-purity oxygen, nitrogen, and argon efficiently. Equipped with advanced technology, they ensure stable output and reliable supply to meet the demands of various industrial electronics applications.



Efficient Gas Supply Fleet

Our well-organized logistics fleet ensures timely and safe delivery of gases to our clients. With advanced tracking systems and experienced drivers, we guarantee efficient transportation and reliable supply chain support.



Cylinder Treatment Services

We provide cylinder treatment services, including valve assembly, internal cleaning and polishing, surface treatment, to maintain gas purity and storage safety throughout the supply chain.



Engineering Services

From cylinder storage to your production line, we design, install, and optimize gas delivery systems tailored to your needs. Our experts ensure seamless integration of pipelines, safety-compliant storage, and precision distribution networks—maximizing efficiency and minimizing downtime.



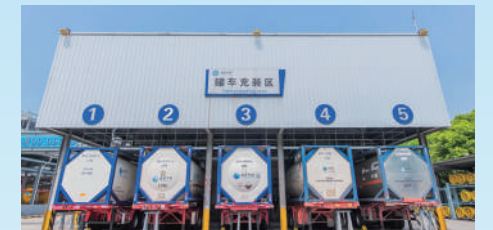
State-of-the-Art Gas Filling Equipment

Our advanced automated gas filling equipment ensures precision and efficiency in every process. Designed with cutting-edge technology, it enhances production accuracy, minimizes waste, and guarantees consistent gas quality to meet the highest industry standards.



Electronics Specialty Gas Filling

We provide precise electronics specialty gas filling services using advanced equipment and strict quality control measures. Our process ensures high-purity gases tailored to meet the specific requirements of various high-tech industries.



Comprehensive Safety Control

We implement rigorous safety protocols throughout the entire production and supply process. From gas filling to delivery, every step is carefully monitored to ensure product integrity and operational safety.



CERTIFICATION >>

JinHong Gas holds a portfolio of industry leading certifications. Our accreditations include ISO 9001 (Quality Management), ISO 14001 (Environmental Management), OHSAS 18001 (Occupational Health and Safety), ISO22000, and FSSC22000, alongside GMP compliance for medical applications.

Each certification reflects rigorous third-party validation of our facilities, precision analytical capabilities (including GC MS/MS, ICP MS/MS, and cavity ring-down spectroscopy), and adherence to global best practices.



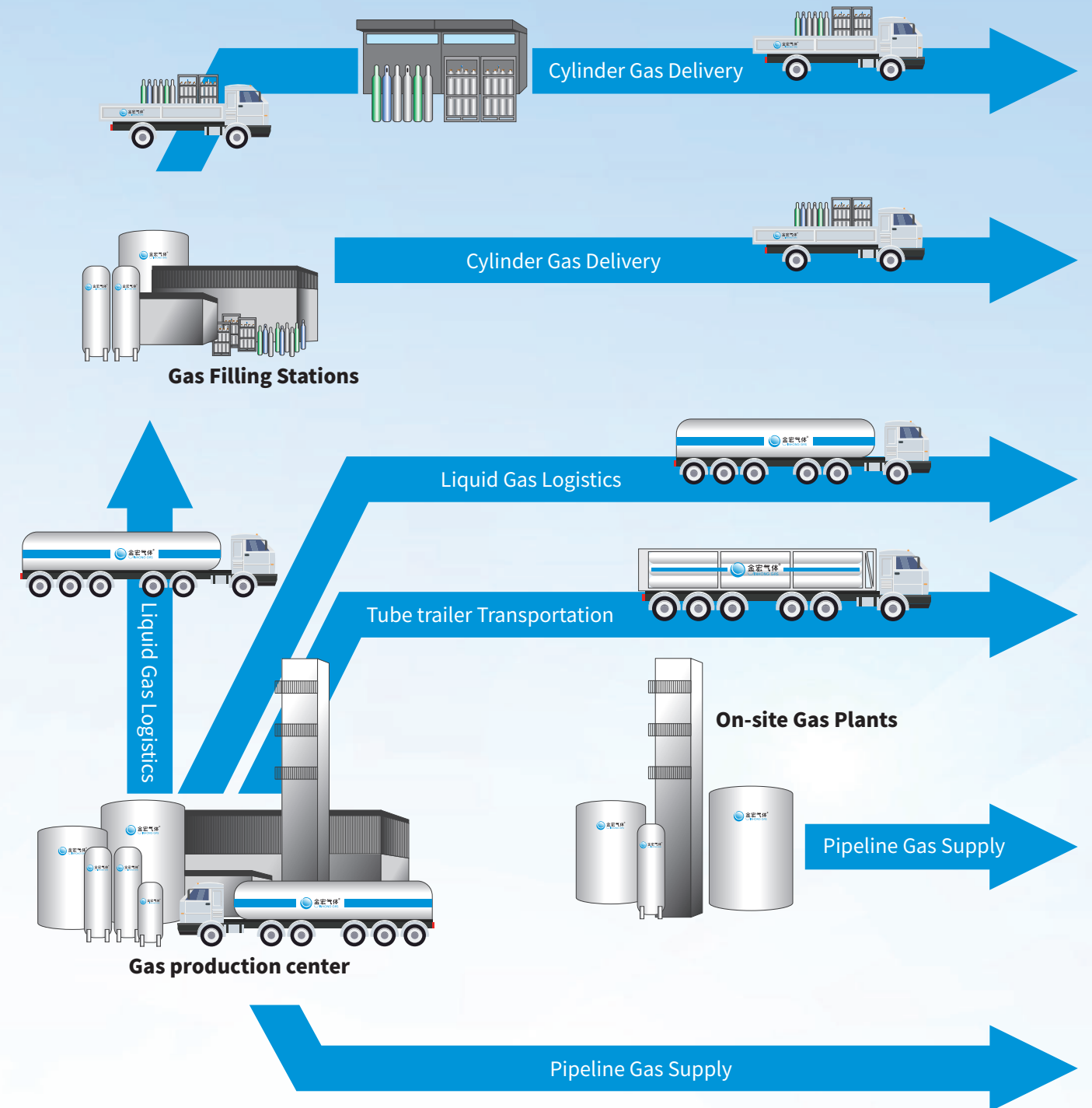
R&D >>

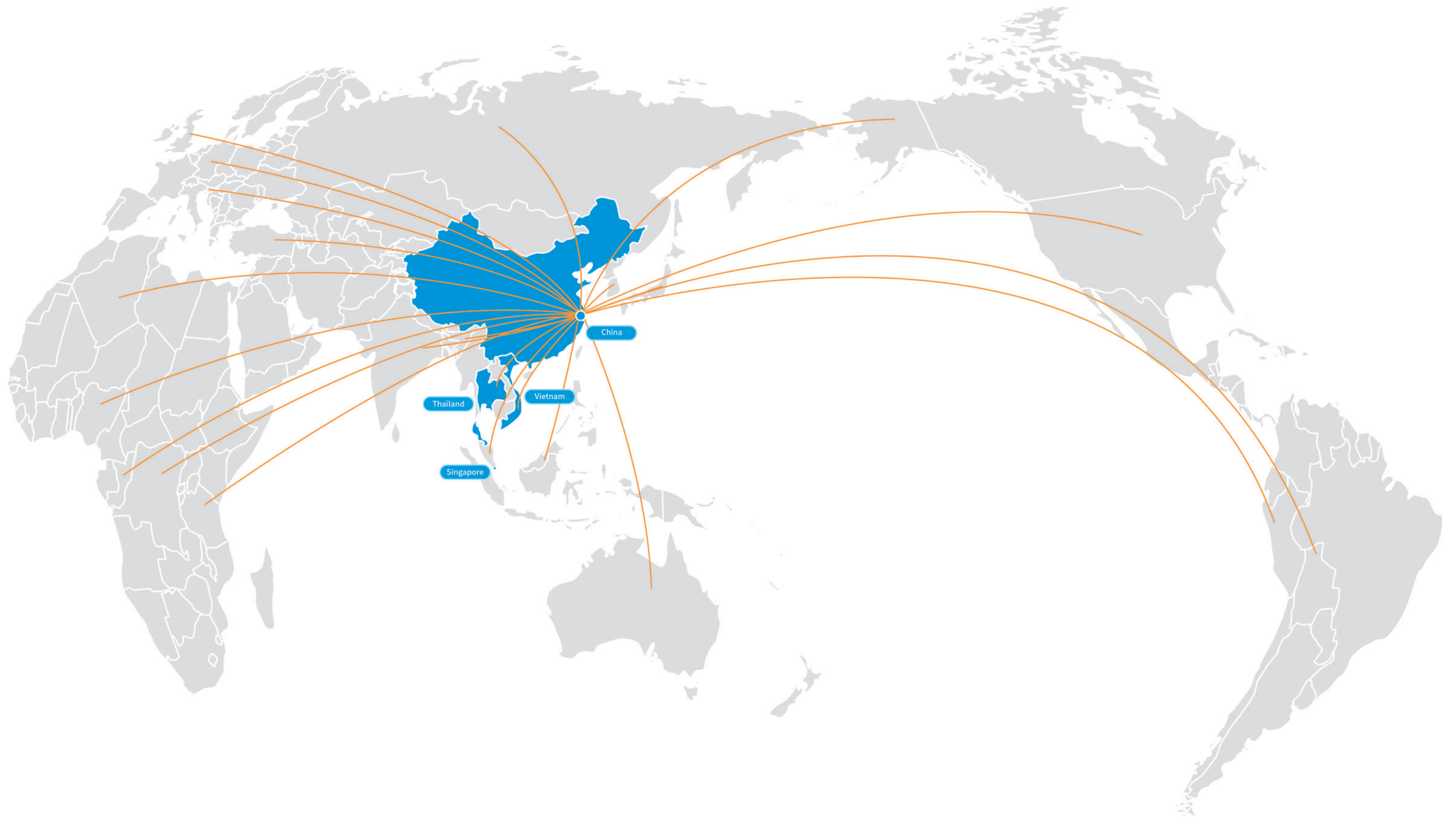
JinHong Gas boasts a dedicated R&D center specializing in the development of ultra-high purity electronic specialty gas. We also house a national enterprise technology center and a CNAS-certified laboratory. Through continuous product development and scientific research, JinHong Gas has accumulated extensive technical expertise and currently holds over 150 patents, including 32 invention patents.

STRATEGIC CUSTOMERS >>



GAS SOLUTIONS >>

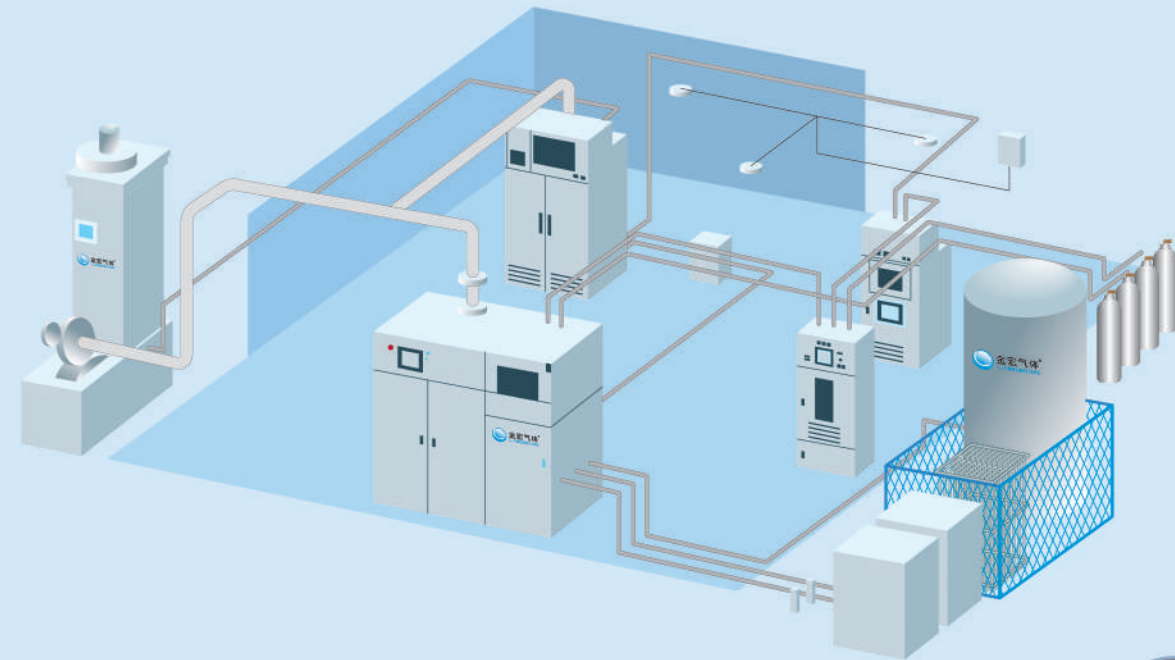




APPLICATION >>

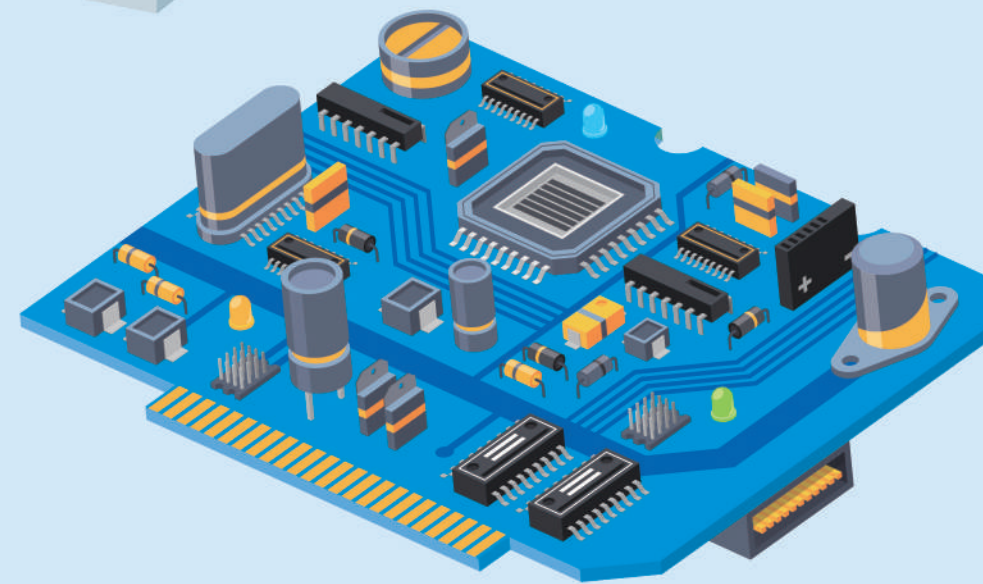
Manufacturing

From metal fabrication to energy innovation, JinHong Gas delivers high-purity solutions for welding, cutting, chemical processing, electronics, food packaging, pharmaceuticals, environmental tech, and power generation. etc. Trust our precision, safety, and reliability to fuel your industry's success—any application, any scale.



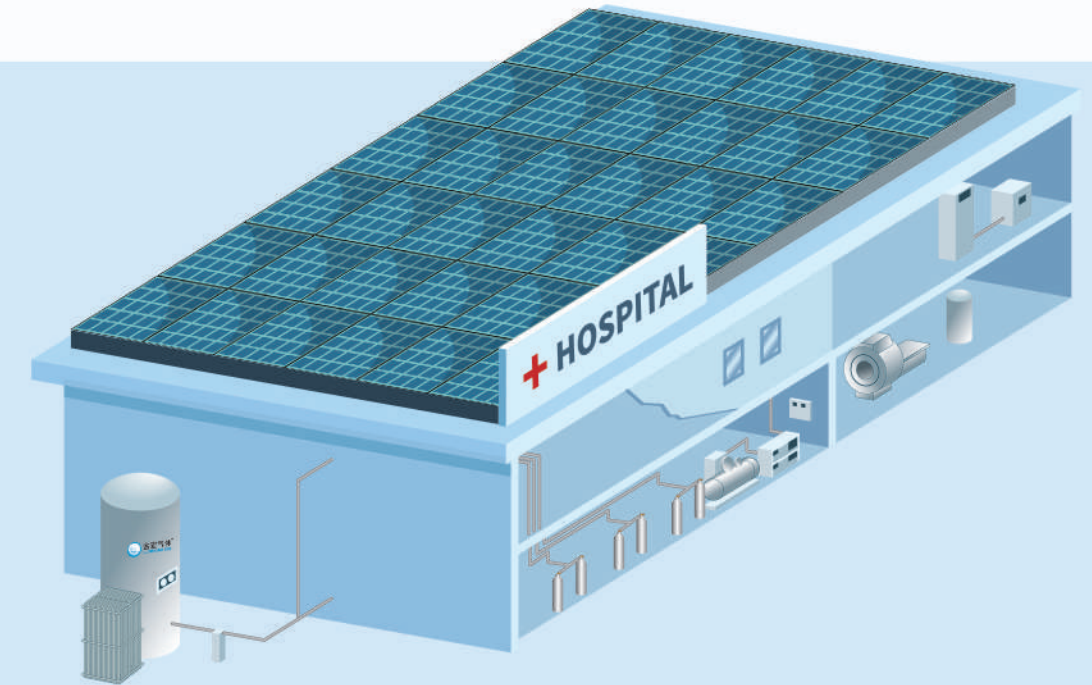
Semiconductor

At JinHong Gas, we deliver ultra high purity gases (99.9999%+) essential for etching, deposition, ion implantation, chamber cleaning, etc. processes. Our UHP Ar, He, NH₃, N₂O, CO₂, TEOS, and Carbon fluoride ensure minimal contamination, enabling advanced transistor structures and chip miniaturization.



Medical

Our gas systems meet GMP standards, ensuring zero particulate contamination in critical applications. We provide medical-grade oxygen and carbon dioxide for respiratory and pharmaceutical applications, ensuring full traceability from production to delivery. Our EO is often used for sterilisation in pure gas or in mixtures with CO₂, and has a wide range of bactericidal power.



Photovoltaic Solar

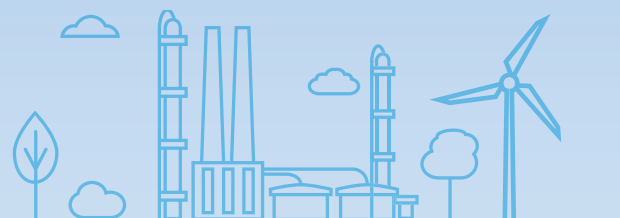
High purity electronics special gas and chemicals etchant boost solar cell conversion rates. significantly reduce significantly reduce production waste, making solar energy more cost-effective for global markets.



Food Processing & Packaging

Ensure peak freshness and quality with our food-grade CO₂, N₂, and O₂ gases—designed for Modified Atmosphere Packaging (MAP), rapid freezing, and precise carbonation. we deliver custom gas blends for meats, produce, and baked goods, paired with rapid-response supply chains to keep your operations.

ESG COMMITMENT PIONEERING SUSTAINABLE SOLUTIONS IN INDUSTRIAL GASES



Environmental Stewardship

As China's largest privately-owned gas provider, JinHong Gas integrates sustainability into every aspect of operations. We specialize in clean energy solutions and innovative gas technologies designed to reduce carbon footprints across industries. Our product portfolio, including eco-friendly alternatives to high-pollution materials, supports global decarbonization efforts. Leveraging R&D capabilities and partnerships with academic institutions, we continuously advance energy-efficient production methods and emission-reduction technologies to align with global climate goals.

Social Responsibility

Safety and stakeholder welfare are foundational to our business. With ISO-certified quality management systems and a Safety First culture, we ensure zero compromise on employee well-being, supply chain ethics, or end-user safety. Our robust logistics network delivers reliable, customized gas solutions to over all clients worldwide, empowering industries from semiconductors to healthcare. Beyond business, we engage local communities through STEM education initiatives and emergency response collaborations, fostering inclusive growth in regions we serve, including Southeast Asia and Europe.

Governance Excellence



Listed on Shanghai Stock Exchange's STAR Market (688106), JinHong Gas upholds transparency and accountability through a robust governance framework. The independent board oversees ESG integration into strategic decision-making, while stringent risk controls and compliance protocols align with international standards. Our innovation-driven model—supported by R&D centers and cylinder testing facilities—prioritizes long-term value over short-term gains, earning trust from investors and partners alike.

Global Vision, Local Impact

From reducing industrial emissions to enabling cutting-edge electronics manufacturing, JinHong Gas redefines the role of gas providers in a circular economy. Together, we're building a future where industrial progress and planetary health thrive in harmony.





PRODUCT LIST

Product	Formula	Highest Purity	Package	Valve
Oxygen	O ₂	5N	50L	CGA540
Nitrogen	N ₂	6N	50L	CGA580
Argon	Ar	6N	50L	CGA580
Hydrogen	H ₂	6N	50L	CGA350
Ammonia	NH ₃	7N	47L / 440L / 930L / ISOTANK	DISS720
Silane	SiH ₄	6N	47L / 440L / TT	DISS632
Nitrous Oxide	N ₂ O	5N5	47L / 470L / TT	DISS712
Carbon Dioxide	CO ₂	5N5	40L / 440L / ISOTANK	DISS716
Methane	CH ₄	5N	47L	CGA350
Acetylene	C ₂ H ₂	3N	40L	CGA510
Ethylene	C ₂ H ₄	5N5	47L	DISS724
Propylene	C ₃ H ₆	4N5	47L	DISS724
Propane	C ₃ H ₈	2N5	40L / 72L / 112L	BWF-1
Ethylene Oxide	C ₂ H ₄ O	3N	50L / 800L	QF-2A
Helium	He	6N5	47L / 50L / TT	CGA580
Neon	Ne	6N	10L / 50L	CGA580
Krypton	Kr	5N5	10L / 50L	CGA580
Xenon	Xe	6N	10L / 50L	CGA580
TEOS	(C ₂ H ₅ O) ₄ Si	9N	5GAL / 10GAL / 200L	1 / 4"VCR
Carbon Tetrafluoride	CF ₄	5N	47L / 440L	CGA320
Fluoroform	CHF ₃	5N	47L	DISS716
Fluoromethane	CH ₃ F	5N	47L	DISS724

Product	Formula	Highest Purity	Package	Valve
Hexafluorobutadiene	C ₄ F ₆	4N	47L	DISS716
Octafluorocyclobutane	C ₄ F ₈	5N	47L	DISS716
Nitrogen Trifluoride	NF ₃	4N	47L / 470L / TT	CGA640
Sulfur Hexafluoride	SF ₆	5N	47L	CGA590
Sulfur Oxide	SO ₂	3N	40L / 800L	QF-10
Chlorine	Cl ₂	5N	47L / 1000L	DISS634
Hydrogen Chloride	HCl	5N	47L / 1000L	DISS720
Hydrogen Bromide	HBr	5N	47L	DISS634
Boron Trichloride	BCl ₃	5N	47L	CGA660
HCDS	Si ₂ Cl ₆	4N5	7L	1/4"VCR
DS	Si ₂ H ₆	4N5	47L	DISS632
DCS	SiH ₂ Cl ₂	6N	40L	DISS636
TSA	Si ₃ H ₉ N	2N5	20L	DISS632
D4	[(CH ₃) ₂ SiO] ₄	4N	5GAL / 10GAL	1/4"VCR
Nitric Oxide	NO	3N5	47L	CGA 660
Hydrogen & Argon Mixture	H ₂ +Ar	H ₂ 6N / Ar 6N	47L	CGA580
Silane & Nitrogen Mixture	SiH ₄ +N ₂	SiH ₄ 6N / N ₂ 6N	47L	DISS632
Phosphine & Hydrogen Mixture	PH ₃ +H ₂	PH ₃ 6N / H ₂ 6N	47L / 470L / TT	DISS632
Diborane & Hydrogen Mixture	B ₂ H ₆ +H ₂	B ₂ H ₆ 4N / H ₂ 6N	47L / 470L	DISS632
Methane & Argon Mixture	CH ₄ +Ar	CH ₄ 5N5 / Ar 6N	47L	CGA580
Ethylene Oxide & Carbon Dioxide Mixture	C ₂ H ₄ O+CO ₂	EO 3N / CO ₂ 3N	50L / 800L	QF-2A
Customized Mixture Gas	Customized	Customized	Customized	Customized
Hydrofluoric Acid	HF	48%~50%	IBC TANK / ISO TANK	/
Sodium Hydroxide	NaOH	45%~50%	IBC TANK / ISO TANK	/
Potassium Hydroxide	KOH	48%	IBC TANK	/
Hydrogen Peroxide	H ₂ O ₂	29%~36%	IBC TANK / ISO TANK	/
Nitric Acid	HNO ₃	68%-70%	IBC TANK	/
Hydrochloric Acid	HCL	36%~38%	IBC TANK	/
Trimethylaluminum	TMA	5N	300KG-CYL	/
Phosphoryl Chloride	POCL ₃	6N	2.5KG-CYL / 7KG-CYL	/

Acetylene



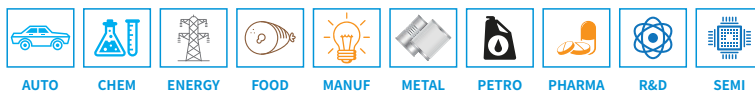
Formula	C ₂ H ₂
Purity	2N5/3N
Solvent	DMF/Acetone
Package	40L Cylinder/MCP
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
CAS	74-86-2
UN	1001
Characteristics	Flammable. Colourless gas with ether-like odour when very pure, otherwise garlic-like. Supplied dissolved in acetone or DMF (N, N-dimethylmethanamide). Can decompose instantaneously at pressures higher than 1 bar. Acetylene can be delivered as a non-dissolved gas for specific R&D applications.
Health risk	Asphyxiant, anaesthetic.

Application:

Acetylene is one of the important raw materials for organic synthesis. It is also a monomer for synthetic rubber, synthetic fibers and plastics, and is also used for oxyacetylene welding and cutting.



Ammonia



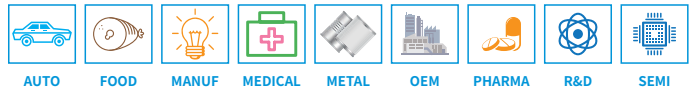
Formula	NH ₃
Purity	3N/5N5/7N
Package	47L/400-470L/800-930L Drum/ISO Tank
Other cylinder/valve combinations available on request	
CAS	7664-41-7
UN	1005
Characteristics	Colourless liquefied gas with a penetrating and suffocating odour. Combustible but hard to ignite.
Health risk	Toxic. irritates mucous membranes and eyes. High concentrations give rise to cramp in the windpipe and pulmonary oedema.

Application:

High-purity ammonia is mainly used in the field of new optoelectronic materials and is an important basic material for the preparation of GAN by MOCVD technology. High-purity ammonia is also the basic material for the preparation of nitrogen trifluoride, silicon nitride, and the raw gas for the production of super high-grade nitrogen. In addition, liquid ammonia is widely used in the semiconductor industry, metallurgical industry, and other industries and scientific research that require a protective atmosphere.



Argon



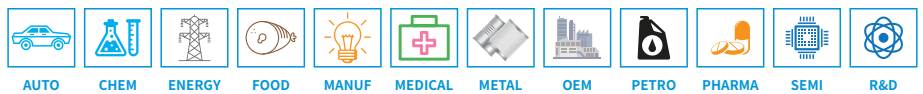
Formula	Ar
Purity	4N/5N/5N5/6N
Package	50L Cylinder/MCP/Dewar/ISO Tank
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures such as Ar+CO ₂ /Ar+H ₂ /Ar+He/Ar+CH ₄ etc. can be customized	
CAS	7440-37-1
UN	1006
Characteristics	Colorless and non-flammable gas. Non-reactive. Inert.
Health risk	Asphyxiant at high concentrations.

Application:

Argon is one of the most widely used shielding gases for welding and heat treatment, providing an inert atmosphere that prevents oxidation and enhances weld quality. It serves as a carrier gas in gas chromatography, sputtering, plasma etching, and ion implantation processes. Additionally, argon is employed as a protective blanket atmosphere in crystal growth to maintain a stable and contamination-free environment.



Carbon Dioxide



Formula	CO ₂
Purity	3N/4N/5N/6N
Package	10L/47L/440L Y-Cylinder/Dewar/ISO Tank
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Dry ice with different package, Mixtures gas such as Ar+CO ₂ , EO+CO ₂ etc..can be customized	
CAS	124-38-9
UN	1013
Characteristics	Liquefied, colourless gas.
Health risk	Asphyxiant at high concentrations. Increases the breathing rate.

Application:

Carbon dioxide (CO₂) is widely used as a shielding gas in welding to protect the weld from contamination. It also plays a significant role in the food industry, serving as a preservative, carbonation agent, and for modified atmosphere packaging. Additionally, CO₂ is used in cleaning applications, particularly for dry ice blasting, due to its ability to remove contaminants without leaving residue.



Ethylene



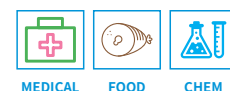
Formula	C ₂ H ₄
Purity	3N/5N
Package	50L/MCP
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures gas such as EO+CO ₂ can be customized	
CAS	74-85-1
UN	1962
Characteristics	Colorless, slightly sweet and slightly aromatic gas. Hardly soluble in water, but easily soluble in organic solvents such as carbon tetrachloride.
Health risk	Asphyxiant at high concentrations.

Application:

Ethylene (C₂H₄) is commonly used in the production of polyethylene and other plastics, as well as in the synthesis of various chemicals. It also serves as a plant growth regulator in agriculture to promote fruit ripening and enhance crop yield.



Ethylene Oxide (EO)



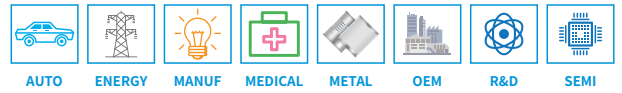
Formula	C ₂ H ₄ O
Purity	3N
Package	50L/800L Drum
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures gas such as EO+CO ₂ can be customized	
CAS	75-21-8
UN	1040
Characteristics	Flammable. Odourless and colourless gas.
Health risk	Toxic. Binds itself to the haemoglobin in the blood. A headache is usually the first shown symptom.

Application:

Ethylene oxide (EO) is widely used in sterilization processes, particularly for medical devices and equipment, due to its effectiveness in eliminating bacteria, viruses, and fungi without damaging sensitive materials.



Helium



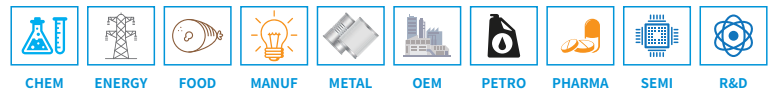
Formula	He
Purity	3N/5N/6N/6N5
Package	50L Cylinder/MCP/Dewar/TT/Liquid Tank
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures gas such as H ₂ +He/Ar+He/He+O ₂ +N ₂ etc..can be customized	
CAS	7440-59-7
UN	1046
Characteristics	Colourless and odourless gas. Non-reactive.
Health risk	Asphyxiant at high concentrations.

Application:

Helium (He) is commonly used as a carrier or purge gas in various applications, including Magnetic Resonance Imaging (MRI) spectroscopy and precise welding. It serves as a calibration gas and is essential for leak testing in balance systems. In semiconductor manufacturing, helium is used for cooling and inerting purposes. Additionally, it is crucial for deep-sea diving and is widely used in balloons due to its low density and non-flammable properties.



Hydrogen



Formula	H ₂
Purity	4N/5N/6N
Package	50L Cylinder/MCP/TT
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures such as H ₂ +N ₂ /H ₂ +SiH ₄ /H ₂ +Ar etc.can be customized	
CAS	1333-74-0
UN	1049
Characteristics	Flammable. Odourless and colourless gas.
Health risk	Asphyxiant at high concentrations. Binds itself to the haemoglobin in the blood.

Application:

Hydrogen is used extensively in the metals industries because of its ability to reduce metal oxides and prevent oxidation of metals during heat treatment. It may be used either pure, as is often the case when heat treating stainless steel, or in a mixture with inert gases, argon or nitrogen. It is used in the production of carbon steels, special metals and semiconductors.



Nitrous Oxide



Formula	N ₂ O
Purity	3N/5N5
Package	50L Cylinder/470L Y-Cylinder/ISO Tank/TT
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
CAS	10024-97-2
UN	1070
Characteristics	Colourless and odourless gas.
Health risk	Asphyxiant at high concentrations

Application:

Nitrous oxide (N₂O) is widely used in applications such as cream foaming, where it helps create a smooth, stable texture. It also plays a crucial role in the semiconductor industry for etching and cleaning processes. Additionally, it is utilized in automotive systems as an oxidizer to enhance engine performance.



Oxygen



Formula	O ₂
Purity	2N5/5N/5N5
Package	50L Cylinder/MCP/Dewar/ISO Tank
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures such as Ar+O ₂ /O ₂ +N ₂ /O ₂ +CF ₄ etc.can be customized	
CAS	7440-37-1
UN	1072
Characteristics	Colourless and odourless gas.
Health risk	Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.

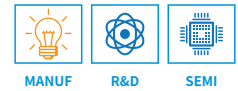
Application:

Liquid oxygen is used in liquid oxygen explosives, and as a comburent in space propulsion.

Oxygen is used to supplement or replace air in burners used in many different industries in order to obtain increased temperatures. Typical applications are found in the steel, non-ferrous, glass and concrete industries amongst many others. It also be used in cutting and welding, calibration gas and medical uses.



Silane



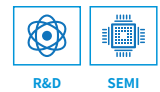
Formula	SiH ₄
Purity	6N
Package	47L/MCP/470L Y-Cylinder/TT
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
Mixtures gas such as SiH ₄ +N ₂ /SiH ₄ +H ₂ /SiH ₄ +Ar/SiH ₄ +PH ₃ and SiH ₄ +TMB can be customized	
CAS	7803-62-5
UN	2203
Characteristics	Flammable. colourless gas with repulsive odour. Forms white fumes at leakage. Mixtures with more than 3% silane ignites spontaneously in air.
Health risk	Asphyxiant at high concentrations. May cause headache, nausea and irritation of respiratory tract.

Application:

Silane (SiH₄) is primarily used in the semiconductor industry for the deposition of silicon-based thin films and the production of microelectronics. It is also an essential component in the manufacture of float glass, where it improves the glass's durability and quality by enhancing its surface properties.



TEOS



Formula	C ₈ H ₂₀ O ₄ Si
Purity	9N
Package	5 Gallon/10 Gallon/200L
Cylinder Standards	DOT/ISO/GB
Other cylinder/valve combinations available on request	
CAS	78-10-4
UN	1292
Characteristics	Colorless transparent liquid, relatively stable to air; slightly soluble in water, slowly hydrolyzed in pure water; hydrolysis can be accelerated in the presence of acid or alkali.
Health risk	Inhalation, ingestion or absorption through the skin is harmful to the body and irritating to the skin; its vapor or smoke is irritating to the eyes, mucous membranes and respiratory tract. Contact can cause headaches, nausea and vomiting

Application:

Tetraethyl Orthosilicate (TEOS) is used as the raw materials used in semiconductor technology deposition can be used for low pressure chemical vapor deposition (LPCVD) the surface of silica in SiC wafers deposits, ensure the density of the oxide layer medium and SiC wafers adhesion ability, improve the performance of the device and yield, and avoided in order to obtain a certain thickness of oxide layer of the shortcomings of long time high temperature oxidation.



Cylinder Treatment Services

We provide professional cylinder treatment services based on the properties and specific requirements of the carrier gas. Our process includes internal polishing, surface treatment, periodical inspection, disposal of scrapped gas cylinders, and guaranteeing stability and safety during storage and transportation.



1

Cylinder reception



2

Residual gas removal and valve disassembly



3

Internal oxide cleaning



4

Internal oil stain cleaning



5

Internal grinding and polishing



6

Internal cleaning



7

Gas purging



8

Valve assembly



9

Leakage test



10

Vacuum drying and moisture



11

External surface treatment



12

Processing complete

Seamless Cylinder

Water Capacity :	0.6L/10L/40L/47L/50L
Empty Package Weight (approx.) :	360G/31.1KG/57KG/60KG
Material :	Alu/CrMo Steel
Max Allowed Working Pressure :	15Mpa/20Mpa
Manufacture Standard (s) :	ISO/DOT/GB



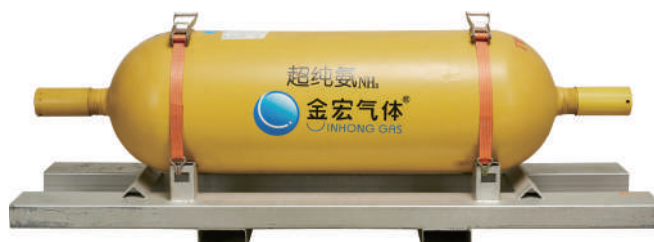
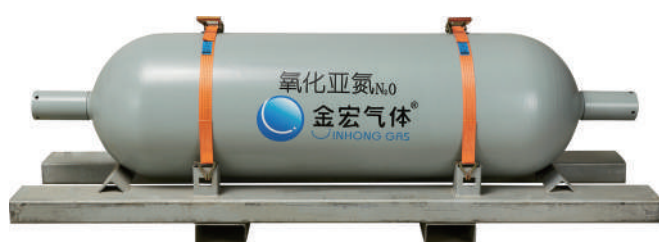
Multiple Cylinder Pallet (MCP)

Water Capacity :	50Lx16
Empty Package Weight (approx.) :	938KG
Material :	CrMo Steel
Max Allowed Working Pressure :	15Mpa/20Mpa
Manufacture Standard (s) :	ISO/DOT/GB



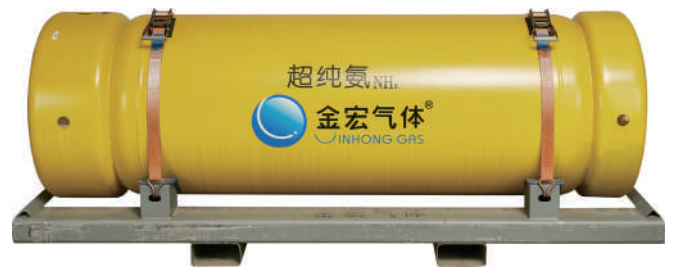
Y-Cylinder

Water Capacity :	470L
Empty Package Weight (approx.) :	696KG
Material :	CrMo Steel
Max Allowed Working Pressure :	16.6MPa
Manufacture Standard (s) :	DOT



Drum

Water Capacity :	400L/800L/930L
Empty Package Weight (approx.) :	269KG/479KG/726KG
Material :	4130X/30CrMo
Max Allowed Working Pressure :	1MPa/3MPa
Manufacture Standard (s) :	ISO/DOT/GB



ISO Tank

Water Capacity :	21.1CBM/41.377CBM
Empty Package Weight (approx.) :	1000KG/23000KG
Max Allowed Working Pressure :	2.28Mpa/6.0bar
Manufacture Standard (s) :	ADR/ASME/DOT



Tube Trailer

Water Capacity :	13.428 CBM
Empty Package Weight (approx.) :	13680KG
Material :	CrMo Steel
Volume of Single cylinder :	1.119 CBM
Max Allowed Working Pressure :	16.6MPa
Manufacture Standard (s) :	DOT/GB



Canister

Water Capacity :	5 Galloon/10 Galloon/200L
Empty Package Weight (approx.) :	12.5KG/17KG/130KG
Gas Filling Weight (approx.) :	17KG/31KG/184KG
Material :	316L Stainless Steel
Valve :	Pneumatic Diaphragm Valve, 1/4" VCR





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