

瑞信气体



气体产品
Gas Products Brochure

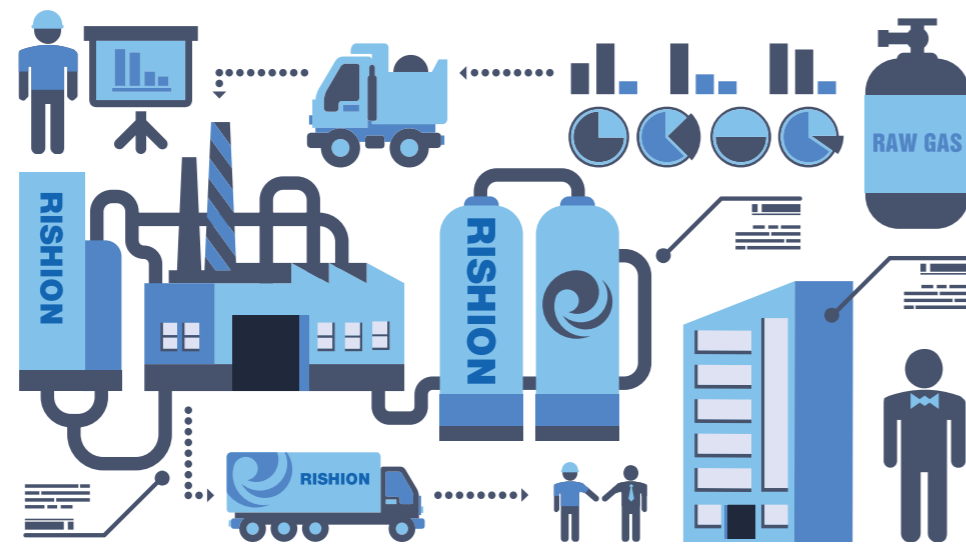
A leading industrial gas and
engineering company

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信任源自卓越
Trust Comes From Excellence

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瑞信气体 企业简介

瑞信气体是中国领先的工业气体和气体工程公司之一。瑞信气体提供种类广泛的工业气体、高纯气体、标准气体、医疗气体、电子特殊气体等气体产品。瑞信气体的气体产品服务于涉及航空航天、化工、环境保护、半导体制造、医疗卫生、装备制造等众多行业。

瑞信一直践行“气体资源综合利用”的企业使命，为客户提供前沿的气体供应和气体处理解决方案以支持客户业务发展和提升客户生产效率。

依托丰富的气体行业生产经验和气体分离提纯的技术研发能力，瑞信气体现拥有数十项气体生产的专利及多项高新技术的气体产品，2014年起连续认定为国家高新技术企业。瑞信生产的各类气体产品拥有很高的市场知名度和占有率。



About RISHION

Rishion Gas is one of China's leading industrial gas and engineering companies. Rishion provides a wide range of industrial gases, high-purity gases, calibration gases, medical gases, electronic special gases and other gas products. The gas products serve many industries involving aerospace, chemical, environmental protection, semiconductor manufacturing, health care, equipment manufacturing, etc.

With the mission of "Comprehensive Utilization of Gas Resource", Rishion provides customers with cutting-edge gas supply and gas processing solutions to support business development and enhance their productivity.

Relying on rich experience in gas production and R&D capability in gas separation and purification, Rishion has dozens of high-tech gas production, and has been continuously recognized as a national high-tech enterprise since 2014. Rishion produces various types of gas products with a high recognition and market share.

COMPETENCE

企业优势



RISHION

研发能力

R&D Capabilities

- 国家高新技术企业
National high-tech enterprise
- 专精特新企业
National specialized, refined, and innovative enterprise
- 重庆市企业技术中心
Chongqing city Enterprise technology center
- 数十项气体生产专利及多项高新技术产品
Gas production patents and high-tech products

气体生产

Gas Manufacture

- 中国最大的氦气生产厂家之一
Influent helium manufacturer and distributor in China
- 中国最大的气体标准物质生产厂家之一
Mass manufacturer of calibration gas in China
- 中国中西部最大的氢能源供应商之一
Local hydrogen manufacturer
- 中国领先的气体灭火剂生产商
Leading manufacturer of gas extinguishing agent in China

气体工程

Gas Engineering

- 瑞信工程部门专注于提供效率领先的工业气体能源综合利用方案和 EPC 工程承包。
Focusing on providing comprehensive utilization solutions of gas resource EPC engineering contracting
- 瑞信工程部门综合运用低温精馏、低温吸附、气体膜分离、催化、变压吸附等技术手段，分离提纯各类高价值气体。
By comprehensively utilizing technics such as distillation, PSA, TSA, membrane separation and catalysis, Rishion is an expert in various high-value gas separation and purification

信任源自卓越

Trust Comes From Excellence

ORGANISATION

组织机构



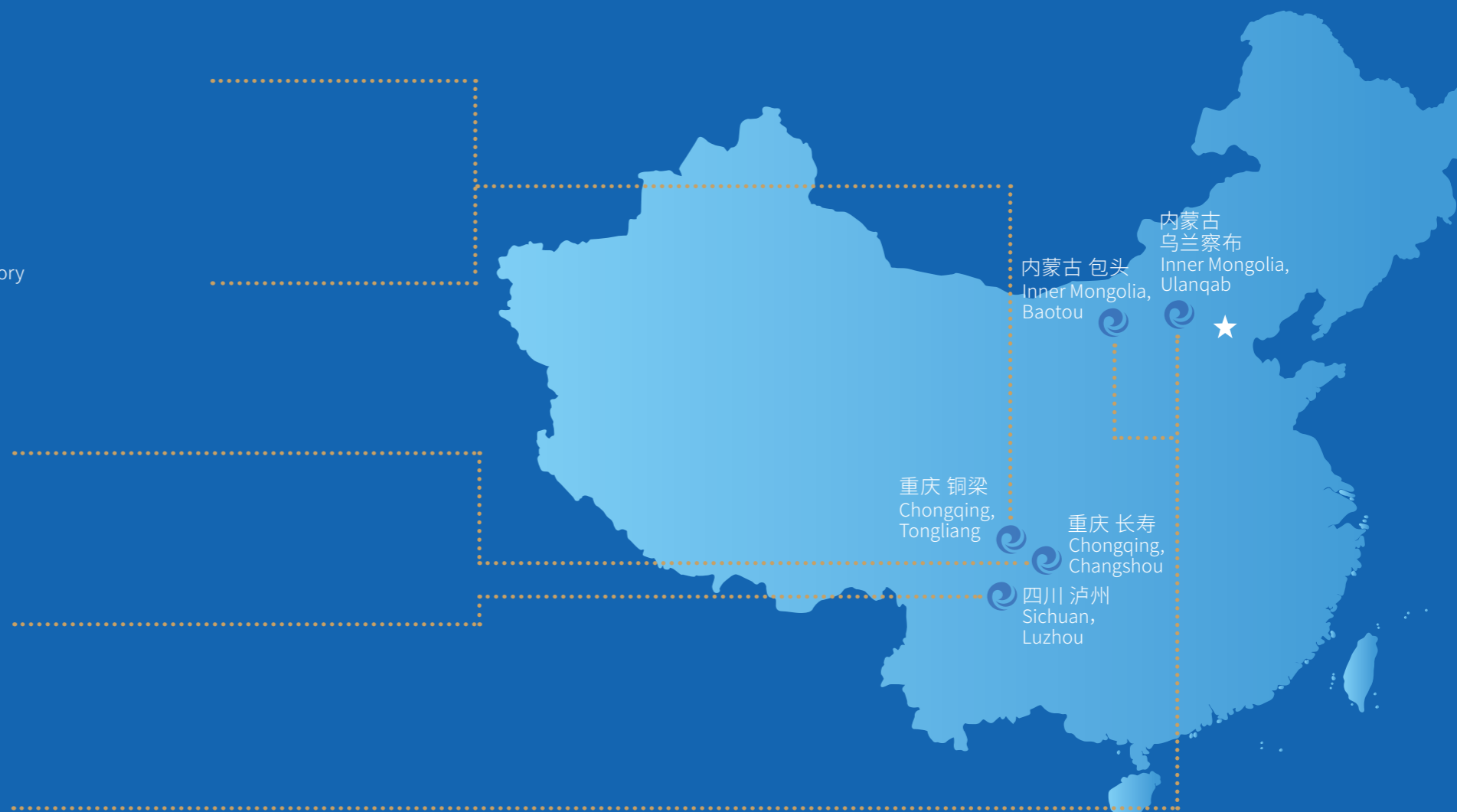
GTP 高纯气体分装工厂
UHP Gas Transfilling Plant

ASP 气体分离提纯设备工厂
Air Separation and Purification Equipment Factory

CO₂ 高纯二氧化碳生产工厂
UHP Carbon Dioxide Plant

H₂ 氢气生产工厂
Hydrogen Recovery Plant

He 氦气生产工厂
Helium Recovery Facilities



GAS SUPPLY MODES 气体供应方式



长管拖车 Tube Trailer

对于难液化气体（氢气、氦气）的大量气体供应，我们通常使用长管拖车。对于半导体、化工、医药、浮法玻璃、光纤等气体需求量较大的客户，长管拖车供气是更便利的选择。一个长管拖车的有效气体容积约为4500Nm³。瑞信可以实时远程监控客户的气体存量，并依使用状态主动调度所需气体，以确保不间断的气体供应。瑞信还提供相关系统的安装、维护与监控。

For mass supply of difficult-to-liquefy gases, such as hydrogen and helium, tube trailer is the better choice for customers, such as semiconductors, chemicals, pharmaceuticals, float glass, fiber optics, etc. A tube trailer has an effective gas volume of approximately 4,500 Nm³. With authorization, Rishion can remotely monitor the customer's inventory and proactively dispatch products according to the usage status to ensure continuous supply. Rishion also provides installation, maintenance and monitoring of the related systems.



气瓶 Cylinder

公司提供各种瓶装气体以满足各种生产过程的需要，例如实验室、金属加工、激光切割、食品和医院中的应用等等。这些气体既可以用单个的气瓶，也可以用不同容量的气瓶集装格或者杜瓦瓶为您的应用实现供应，并由我们的运输车队进行快速配送。瑞信还提供相关系统的安装、维护与监控。

Rishion offers a wide range of cylinder gases to meet various demands, such as laboratory, metal processing, laser cutting, food and healthcare, etc. These gases can be supplied to your application in cylinder, buddle or Dewar of different capacities and be quickly delivered by our logistics fleet. Rishion also provides installation, maintenance and monitoring of the related systems.

液体槽车 Lorry Tanker

公司提供安全可靠的大宗液态气体供给。我们将工厂生产出的低温液态气体以槽车运送到客户端，并将其存储在液体储槽内供客户使用。瑞信提供各种尺寸的液体储罐及供气系统，生产并供应二氧化碳、氩气、氮气和氧气等，同时可以实时远程监控客户的气体存量，并依使用状态主动调度所需气体，以确保不间断的气体供应。瑞信还提供相关系统的安装、维护与监控。

The company provides a safe and reliable supply of bulk liquid gases. Rishion delivers cryogenic liquid gases to customers by lorry tankers and stores in on-site storage tanks. Rishion provides various sizes of storage tanks and gas supply systems to supply carbon dioxide, argon, nitrogen and oxygen, etc. With authorization, Rishion also can remotely monitor the customer's inventory and proactively dispatch products according to the usage status to ensure continuous supply. Rishion also provides installation, maintenance and monitoring of the related systems.



现场制气设备 On-Site Production Equipment

基于先进工艺的现场制气设备是为现场制备您即时需要的气体而设计的。根据您的生产过程的参数（纯度、流量、气压），我们将设计和实现专门的解决方案。通常的，使用大流量的氮气、氧气、氢气等气体可以使用现场制气设备，以降低使用成本。瑞信还提供相关系统的安装、维护与监控。

The cutting edge on-site production equipment is designed for the massive gas demand. Depending on the parameters of your production process (purity, flow rate, pressure), Rishion will design and implement a special solution. Typically, gases such as nitrogen, oxygen and hydrogen can utilize on-site equipment to reduce the cost. Rishion also provides installation, maintenance and monitoring of the relevant systems.



GAS PRODUCTS

气体产品介绍

He



液氦分装

Liquid Helium Transfilling

氦气是一种珍稀的气体，很难通过化学反应去获得它。氦气大部分产自美国、卡塔尔、俄罗斯等国的液化天然气副产物中。氦大量用于磁共振、半导体、光纤制造和检漏等行业。瑞信与国际公司长期合作，通过多种渠道进口液氦。在瑞信的分装工厂，瑞信将存储在液氦集装箱的液氦分装到液氦杜瓦、长管拖车和高压气瓶中。

Helium is a rare gas, which is difficult to obtain through chemical reactions. Most of the helium is produced as byproduct in LNG plant in United States, Qatar, Russia and other countries. Helium is widely used in industries of MRI, semi-conductor, fiber optic and leak detection. Rishion imports liquid helium from diverse resources with long-term relationship with international companies. Rishion trans-fill liquid helium in ISO-Container into dewars, tube trailers and cylinders in our filling plants.



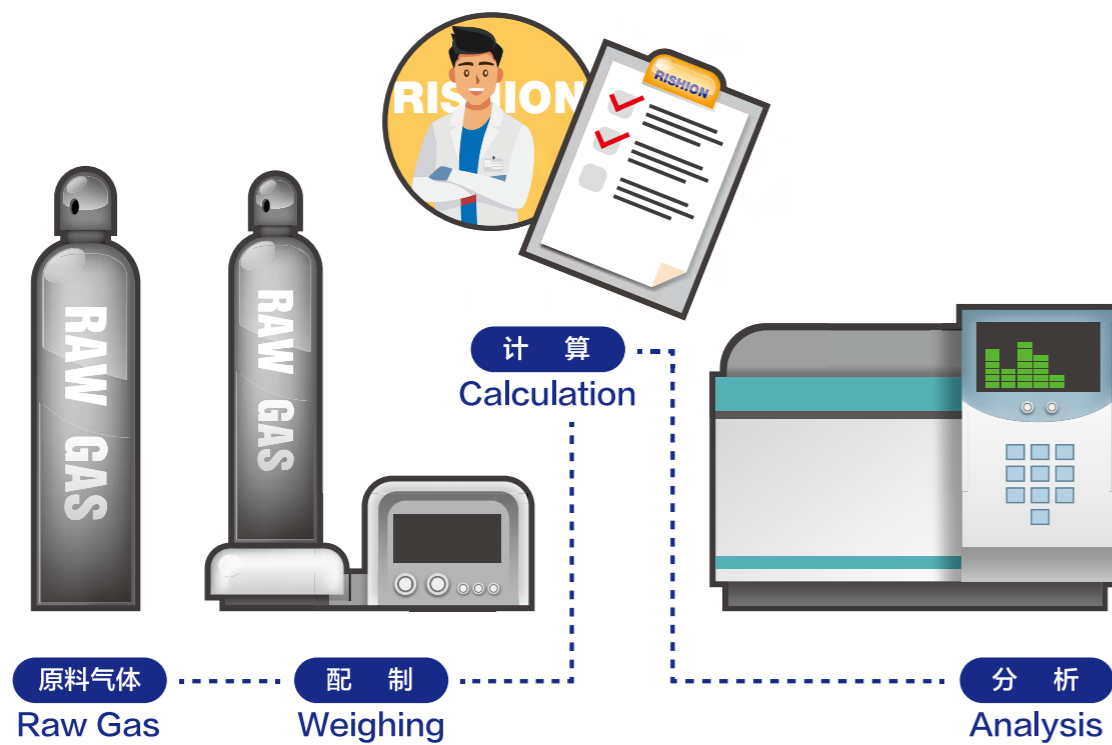
氦气生产

Helium Manufacturer

瑞信气体是中国最大的氦气生产厂家之一。瑞信投资和承包建设了6套BOG提氦装置，装置高纯氦气年产能约200万方，占中国氦气需求量的约8%。瑞信是极少数既保持氦气进口渠道，也能自己生产氦气的厂家，最大化保证气体供应的稳定性。瑞信的氦产品服务于磁共振、科研院所、半导体、光纤生产、设备检漏等行业。

Rishion is one of the leading manufacturers of helium. Rishion has invested and contracted 6 helium recovery facilities in LNG plants of China. These facilities have an annual capacity of approximately 2 million m3. Rishion is one of few companies who both maintain helium import channels and produce helium themselves, maximizing the stability of gas supply. Rishion's helium products are used in a wide range of industries such as MRI, research institutes, semiconductors, fiber optic, leak detection.

He



标准气体

Calibration Gas

瑞信气体是中国最大的气体标准物质生产厂家之一。公司获得国家市场监管总局颁发的 60 多项《国家标准物质定级证书》瑞信气体生产的标准气体用于石油化工、环境保护、仪器校准、尾气检测、可燃气体监测、医疗等多个行业。

Rishion Gas is one of the leading manufacturers of calibration gas. Calibration gases are used in many industries such as petrochemical, environment protection, instrument calibration, exhaust gas detection, combustible gas detection and medical treatment.

应用行业 Application	组分 Component	平衡气 Balance Gas
环境保护 Environment Protection	H ₂ S, SO ₂ , NH ₃ , NO, NO ₂ , CO, CO ₂ , CH ₄ C ₆ H ₆	N ₂ , air
石油化工 Petrochemical	THC, CO, CO ₂ , H ₂ , O ₂ , 有机氧化物 (Organic Oxides), 硫化物 (Sulfur compounds)	N ₂ , C ₂ H ₄ , C ₃ H ₈ , air
报警器校准 Combustible gas detection	CH ₄ , C ₃ H ₈ , CO, H ₂ S, Cl ₂ , SO ₂ , NH ₃	N ₂ , air
化肥工业 Fertilizer industry	CO, CO ₂ , CH ₄ , H ₂ S, COS, O ₂ , H ₂	N ₂ , H ₂
电力工业 Power industry	H ₂ , O ₂ , CO, CO ₂ , CH ₄ , C ₂ H ₂ , C ₂ H ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₃ H ₆	N ₂ , Ar
机动车尾气检测 Vehicle exhaust detection	C ₃ H ₈ , CO, CO ₂ , NO, NO ₂	N ₂
燃气具行业 Gas appliance industry	CH ₄ , H ₂ , C ₃ H ₈ , C ₃ H ₆ , C ₄ H ₁₀	N ₂ , air
空气分离 Air separation	H ₂ , O ₂ , CO, CO ₂ , CH ₄	N ₂ , O ₂ , Ar

我们使用先进的装置、高纯度的原料生产标准气体，使用精密设备检验标准气的浓度水平。瑞信不但拥有先进的仪器、经验丰富的人员，同时经常参与各种实验室比对，从最大程度上保证仪器和产品的准确。

Rishion utilizes cutting edge equipment and UHP raw materials to mix calibration gases, with dozens of precise instruments to measure certainty level. Rishion not only has advanced instruments and expertise, but also frequently participates in various laboratory comparisons to ensure the accuracy of instrument.



名称 Name	纯度等级 Purity Grade	纯度 Purity
N ₂	HP / UHP	99.999% 99.9997%
Ar	HP / UHP	99.999% 99.9999%
He	HP / UHP	99.999% 99.9999%
CO ₂	HP / UHP	99.999% 99.9999%
H ₂	HP / UHP	99.999% 99.9999%
O ₂	HP	99.999%
Ne	HP	99.999%
Kr	HP	99.999%
Xe	HP	99.999%
CH ₄	HP	99.999%
C ₂ F ₆	HP	99.99% 99.999%
C ₃ H ₈	HP	99.9% 99.99%
CO	HP	99.99% 99.999%
NO	IP	99% 99.9%
SF ₆	HP	99.99% 99.999%
CF ₄	HP	99.999%

瓶装高纯气体

UHP Cylinder Gas

我们利用多类气体纯化设备,将产品原料提纯到更高纯度。提纯后的气体通过特殊方式灌装到经过处理的气体包装物中,最大程度的保证气体的洁净程度。此外,我们还利用精密的分析仪器监控生产过程气体和成品气体质量。

Rishion utilizes complex gas purification equipment to purify the raw gas to higher purity level. The purified gases are filled into gas cylinder in a special way to maintain the maximum cleanliness of the gas product. In addition, Rishion monitors and analyzes the products with precise instruments.



氢气

Hydrogen

在天然气化工、石油化工、氯碱等行业,有大量的副产品氢气。这些副产品大都被燃烧或者排放到大气中。瑞信通过氢气回收装置,将化工厂中废气的副产品提纯到工业品。这不仅为客户提供了廉价的产品,也节约资源并保护环境。

瑞信致力于氢能源产业的长期发展,是中国西部最大的氢能源供应商之一,拥有数十台氢气长管拖车公司在中国西部各个角落服务于加氢站、精细化工、平板玻璃、冷轧薄板和成品油加工等众多行业。

In gas chemical, petrochemical and chlor-alkali industries, there is a large amount of hydrogen as by-product. The hydrogen is burned as fuel or emitted into the atmosphere. Rishion recovers hydrogen from the waste gas into industrial products. This not only provides customers hydrogen in low cost, but also saves resources and protects the environment.

Rishion Gas is committed to the long-term development of the hydrogen energy industry and is one of the largest hydrogen energy suppliers in Western China. Rishion serves many industries such as hydrogen refueling stations, fine chemicals, float glass, cold rolled sheet and finished oil processing in Western China.



产品纯度 Purity	高纯 HP ≥ 99.999%	超纯二氧化碳 UHP ≥ 99.9999%
H ₂	≤ 0.5ppm	≤ 0.1ppm
O ₂	≤ 1ppm	≤ 0.1ppm
N ₂	≤ 3ppm	≤ 0.1ppm
CO	≤ 0.5ppm	≤ 0.1ppm
CH ₄	≤ 1ppm	≤ 0.1ppm
非甲烷总烃 NMHC	≤ 2ppm	≤ 0.1ppm
水分 Moisture	≤ 3ppm	≤ 0.1ppm
NO	≤ 0.1ppm	≤ 0.1ppm
NO ₂	≤ 0.1ppm	≤ 0.1ppm
硫化物 Sulfur Compounds	≤ 0.1ppm	≤ 0.1ppm
NH ₃	≤ 0.1ppm	≤ 0.1ppm
金属离子 Metallic ion	/	≤ 1ppb
阴离子 Anion	/	≤ 1ppb

超高纯二氧化碳

UHP Carbon Dioxide

瑞信气体投资建设了中国最大的超纯二氧化碳生产装置之一,装置年产4万吨超纯二氧化碳,产品纯度达到6N。超纯二氧化碳广泛应用于半导体行业超临界清洗、元器件吹扫和激光气体配置等领域。

Rishion Gas has invested in a large UHP CO₂ plant in China, which has an annual capacity of 40,000 tons of UHP CO₂ with purity of 99.9999%. UHP CO₂ is widely used in the semiconductor industry for supercritical cleaning, component purging and laser gas mixing.



食品级二氧化碳 / 干冰

Food-Grade CO₂/Cold Ice

瑞信气体是领先的二氧化碳及设备供应商,投资或承包建设了超过20套二氧化碳生产装置,这些装置年产二氧化碳超过200万吨。

二氧化碳是一种无色、无臭、无味、不可燃、无毒气体。在工业应用中,由于其惰性气体性质,主要被用作焊接保护气体。在饮料领域,主要被用于苏打类汽水的生产。

干冰是固态的二氧化碳,多用于干冰清洗、食品添加剂和冷链物流。

Rishion is a leading manufacturer of carbon dioxide and recovery equipment. It has invested or contracted to build over 20 CO₂ recovery facilities, with a capacity of over 2 million tons per year in total.

CO₂ is colorless, odorless, tasteless, non-flammable and non-toxic. In industrial applications, it is mainly used as a welding shielding gas due to its inert gas properties. In the beverage industry, it is mainly used in the production of soda pop.

Cold ice is the solid CO₂, mostly used in dry ice cleaning, food additives and cold chain logistics.





准分子激光混合气

Excimer laser Mixture Gas

瑞信生产种类丰富的准分子激光气。准分子激光是指受到电子束激发的惰性气体和卤素气体结合的混合气体形成的分子向其基态跃迁时发射所产生的激光，通常都在紫外波段。准分子激光气体是激光发生器的关键气体，包含卤素元素，并辅助一定比例的稀有气体。通常准分子激光气体是 F₂, He, Ne, Ar, Kr, Xe 的混合物。

准分子激光器以其高光子能量所著称，准分子激光器站在了尖端工业激光解决方案的最前沿。作为当今最有效、最可靠的脉冲紫外激光技术的代表，准分子激光器有效地推进了诸如半导体、平板显示、等工业中的技术革新。

Rishion provides various types of Excimer laser. It is the laser when molecules formed by a mixture of inert and halogen gases excited by an electron beam jump to their ground state, usually in the ultraviolet wavelength. The excimer laser gas is the key gas of the laser generator and contains halogen elements with a certain percentage of rare gases. Usually excimer laser gases are a mixture of F₂, He, Ne, Ar, Kr, Xe.

Known for their high photon energy, excimer lasers are at the forefront of cutting-edge industrial laser solutions. Representing the most efficient and reliable pulsed UV laser technology available today, excimer lasers are effectively advancing technological innovation in industries such as semiconductors, flat panel displays.

激光混合气

Laser Mixture Gas

气体激光器是指工作物质是气体的一种激光器，区别于准分子激光器，气体激光器是由原子能级跃迁产生的激光器，主要激励方式有电激励，光激励，气动激励等，气体激光器一般具有非常好的光束质量和相干性。

常见的气体激光器包括二氧化碳激光器和氦氖激光器。

Gas laser is the special laser whose working substance is gas. Distinguished from excimer laser, gas laser is a laser generated by atomic energy level leap, the main excitation methods are electric excitation, optical excitation, pneumatic excitation, etc. Gas laser generally has very good beam quality and coherence.

Well-known gas lasers include CO₂ laser and He-Ne laser.

二氧化碳激光器是典型的分子气体激光器。它的工作物质是 CO₂ 气体，常加入氮、氦及一些其他辅助气体。CO₂ 激光器的输出功率大，它可用于打孔、切割和焊接等领域。

氦氖激光器是常见的气体激光器，是以氦氖作为工作物质的气体激光器。氦氖激光器能量小，常用于医疗激光治疗和测量等领域。

Carbon dioxide lasers a typical molecular gas laser. Its working substance is CO₂, often with the addition of nitrogen, helium and some other auxiliary gases. Output power of CO₂ laser is high, therefore, it can be used in the fields of punching, cutting and welding.

He-Ne laser is a well-known kind of gas laser. The laser uses helium and neon as working substances. He-Ne lasers have small energy and are commonly used in fields such as medical laser therapy and measurement.

医用气体

Medical Gas

瑞信气体供应种类多样的医用气体。医用气体是指用于医疗的气体，是医疗服务的生命线，是挽救生命的重要支撑。医用气体主要包括氧气、氮气、二氧化碳、氧化亚氮等。主要用于手术室、重症监护室、普通病房等。

Rishion provides various gases for healthcare. Medical gases are used for supporting medical treatment, which are the lifeline of medical services. Medical gases mainly include oxygen, nitrogen, carbon dioxide, nitrous oxide, etc. They are mainly used in operation room, intensive care units, general wards.



产品 Product	气体组分 Components	用途 Application
医用氧 Medical Oxygen	O ₂	通过增加吸入气氧浓度，纠正或缓解缺氧状态的一种治疗方法 A treatment to correct or relieve hypoxia by increasing the concentration of oxygen in inhaled air.
NO 混合气 NO Mixture	NO, N ₂	一氧化氮具有选择性诱导肺动脉血管舒张的特性。吸入一氧化氮治疗新生儿肺动脉高压具有良好的效果。 Nitric Oxide has the property of selective induction of pulmonary artery vasodilation. Inhaled nitric oxide is effective in treating pulmonary hypertension of neonate.
肺功能气 Lung Function Test Mixture	CO ₂ , He, CH ₄ , C ₂ H ₂ , Air	患者通过呼吸肺功能检测混合气体，检测肺部相应的各项病理指标。 It is able to detect the corresponding pathological indicators of the lung by breathing the lung function test mixture.
液氮 Liquid N ₂	N ₂	液氮冷冻治疗是利用液氮的低温特点，治疗良性或恶性皮肤病变。 Liquid nitrogen cryotherapy is the treatment of benign or malignant skin lesions using the low temperature of liquid nitrogen.
培养气 Cultivation Gas	CO ₂ , N ₂ , O ₂	培养气通常在检验室里用于培养细菌、细胞或组织，给培养物提供营养。 Cultivation gas is used in laboratories to cultivate bacteria, cells or tissues by providing nutrients.
二氧化碳 CO ₂	CO ₂	用作微创手术中的吹入气体，扩大体腔并保持稳定，以提升手术部位的能见度。 CO ₂ can be used as blow-in gas in minimally invasive surgery to enlarge the body cavity and keep it stable to expand the visibility of surgical site.

产品 Product	气体组分 Components	用途 Application
液氦 Liquid He	He	液氦是磁共振成像系统的理想冷却剂，能维持超导磁体的超导状态 Liquid helium is the ideal coolant for MRI system, maintaining the superconducting state of magnet.
准分子激光气 Excimer Laser Gas	F ₂ , Ar, Ne, He	准分子激光手术在眼科中用于角膜瓣下基质层进行屈光性切削，达到矫正近视的目的 Excimer laser surgery is used in ophthalmology to make refractive cuts in the stromal layer under the corneal flap for the purpose of correcting myopia.
笑气 Nitrous Oxide	N ₂ O, O ₂	笑气使用在各类手术室中，作为手术前麻醉用 Nitrous oxide is used in various operating rooms as preoperative anesthesia.
氦氧混合气 He/O ₂ Mixture	He, O ₂	氦氧混合气让病人气管的阻力下降，解除了气管痉挛和呼吸困难，在哮喘、慢阻肺中有良好的作用 The helium-oxygen mixture reduces respiratory resistance of patients. It is effective to relieve symptoms of asthma and slow-onset lung.
血气分析仪校准气 Blood Gas Analyzer Gas	CO ₂ , O ₂ , N ₂	血气分析仪校准气是由特定浓度的氧气、二氧化碳和平衡气组成的混合气，用于校正血气分析仪 Blood gas analyzer calibration gas is a mixture of oxygen, carbon dioxide and balance gas with specific concentration, used to calibrate the blood gas analyzer.
环氧乙烷 Ethylene Oxide	环氧乙烷 C ₂ H ₄ O, CO ₂	环氧乙烷气体的杀菌力强、杀菌谱广，对物品损害轻微等优点，环氧乙烷已成为目前最常见的低温灭菌方法之一 With the advantages of strong sterilization power, wide sterilization spectrum and slight damage, ethylene oxide gas has become a common low-temperature sterilization methods.



半导体混合气体
Semiconductor Mixture Gas

产品 Product	组分 Component	平衡气 Balance Gas
外延生长气 Epitaxial Growth Gas	SiH ₄ , SiCl ₄ , SiH ₂ Cl ₂ , SiHCl ₃ , Si ₂ H ₆	He, Ar, H ₂ , N ₂
CVD 混合气 CVD Mixture Gas	SiH ₄ , SiH ₂ Cl ₂ , PH ₃ , N ₂ O, WF ₆	H ₂ , O ₂ , CH ₄
掺杂混合气 Doped Mixture Gas	Si ₂ H ₆ , BCl ₃ , BBr ₃ , PH ₃ , PCl ₃ , PBr ₃ , AsH ₃ , AsCl ₃	He, Ar, H ₂
蚀刻混合气体 Etching Mixture Gas	SiCl ₄ , CCl ₄ , CF ₄ , Cl ₂ , CHF ₃ , NF ₃ , C ₂ F ₆ , C ₃ F ₈	He, Ar, O ₂

其他混合气体
Other Mixture Gas

焊接通过熔化边缘来连接工件（通常是金属），主要工艺是弧焊。在此过程中，需要一种气体将熔池与环境空气隔离。氩气和氩氦混合气是主要的工业保护气体。

Welding joins workpieces (usually metal) by melting the edges, and the main process is arc welding. In this process, a gas is required to isolate the molten pool from the ambient air. Argon and argon-helium mixtures are the main industrial shielding gases.

产品 Product	组分 Component	平衡气 Balance Gas
焊接混合气 Welding Mixture Gas	He, CO ₂ , H ₂ , O ₂	Ar
电光源气 Electro Optic Source Gas	CH ₃ Br, CH ₃ Cl, CH ₂ Cl ₂ , Ne, N ₂	Ar, Kr, N ₂
保鲜混合气 Freshness Preserving Mixture Gas	C ₂ H ₄ , H ₂ , O ₂	CO ₂

GAS PRODUCTION 气体生产



气体纯化

Gas Purification

气体产品的质量通常由气体的纯度或者杂质含量表征。一般来说气体的纯度越高,气体的质量就越好。利用物理方法或者化学方法将气体纯度提高的过程就是气体纯化。通过改变气体的温度和压力、使气体不断地流过各类杂质捕获装置,就是为了将各种可能的杂质与产品分离开来。根据客户的需要,我们为客户提供不同规格的产品。

The quality of gas is usually characterized by the purity or impurity content. In general, the higher purity means better quality. The process of increasing purity by physical or chemical means is known as purification. Purification is to separate or absorb impurities by changing the temperature and pressure of the gas in impurity trapping devices. Depending on requirement of customer, Rishion offers various products.

气体灌装

Gas Filling

除了现场制气客户外,我们通常需要使用包装物将各类气体产品送达客户现场。包装物的种类多种多样,将不同类型的气体灌装到包装物的方法也就不尽相同。我们拥有多项专利技术,它们保证了在气体灌装到包装物的过程中,引入杂质控制在亿分之一的等级。气体灌装技术在高纯气体和高精度混合气体的生产中显得尤为重要。

In addition to on-site production, we also provide cylinders and Dewars to deliver various types of products to customers. There are many different types of cylinder and different methods of filling. We have a few patented technics that ensure the impurities is avoided during cylinder filling. Gas filling is the crucial technics the production of high-purity gases and high-precision gas mixtures.



GAS ANALYSIS 气体分析

瑞信拥有一流的气体分析实验室,配置了傅里叶红外气体分析仪、紫外气体分析仪、气相色谱仪器、质谱仪、氮氧化物分析仪、硫磷分析仪、微量氧、微量水等分析化验设备。依托先进的分析设备和完善的实验室认证体系,瑞信气体分析拥有雄厚实力。技术服务团队为广大用户提供气体分析咨询和技术培训。

Rishion has first-class gas analysis laboratories, Fourier infrared gas analyzer, ultraviolet gas analyzer including gas chromatographs, mass spectrometry, nitrogen oxide analyzers, sulfur and phosphorus analyzers, trace oxygen analyzers, moisture meters. Relying on the advanced analytical equipment and effective certification system, Rishion is expert in gas analysis. Rishion's service teams provide customers with gas analysis consultation, and technical training.

