

Huate Gas Presentation



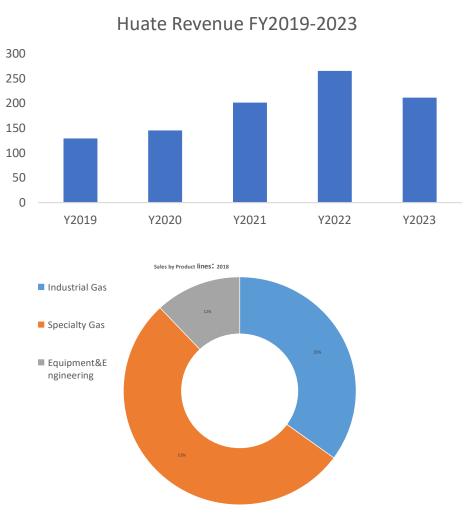
Huate Gas: China Leading Gas Company Safety first 1. Listed in the Science Around &Technology Innovation 200 Million Board(Stock code:688268) **USD** sales 2. Over 30 years, since 1993 3. Chairman: Mr. Shi Pingxiang 4. Started from Package gas biz 5. Around 200 million sales/yr 26 affiliates in China 6. 7. 1186 employees* (Y2023) 4000+ customers 8. 9. 4 Million cylinders/yr delivered **10.Business in 30+ provinces in** China and 50+ countries & Foshan **Regions worldwide**

12/04/2024



Huate Gas financials

In million USD







SHEQ Certifications







Comprehensive Emergency response systems in place







12/04/2024



Quality Control





Quality Control

On May 19, 2021, the testing center of our company has been reviewed of laboratory accreditation organized by China National Accreditation Commission for conformity assessment (hereinafter referred to as "CNAs") and obtained CNAs laboratory accreditation certificate. The scope of accreditation covers 18 gases of our products or gases for electronic industry.

Lab Test Equipment	Quantity	
Trace oxygen analyer	8	
Trace water analyzer	11	
Particle Counter	2	
GC	35	
ICP-MS	1	
FTIR	1	





Huate Gas markets

Semiconductor

Gas distributor Solar Fiber optical TFT FPD **Closer to the markets** Electronic components 20 industries Glass Chemical of market *Metal process* Institutes/laboratories 1. 8 gas filling plants in China Chip 2. 10 depots to supply 30 provinces Light China Instruments 3. 100+ people of Sales force in Medical apparatus 0i1/gas South, East, North, Middle and Others 8 1 1 West China Communications 4. 200+ people of package gas equipment & accessories supply chain management and Mechanical equipment Laser equipment service team Surface treatment 5. Serving 4000+ customers of 20 Medical institutions industries crossing China Refrigeration accessories & 6. There will be more filling plants... refrigerants 4000+ Food **Distribution value-added** customers Print Environmental protection equipment Analvzer Pharmaceutical engineering Security equipment Home&Kitchen products Furniture accessories Generator *Mucilage glue* 12/04/2024 Huate Gas Page 7



Plant View









Huate Gas



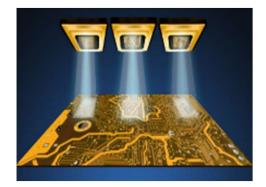
Portfolio of Products

Category	Series	Products
Specialty Gas	Fluoride	CF_4 , C_2F_6 , CHF_3 , CH_3F , CH_2F_2 , SF_6 , C_4F_6 , C_4F_8 , C_3F_8
	Hydride	SiH ₄ 、 PH ₃ 、 AsH3、 GeH ₄ 、 UHP NH ₃ 、 H ₂ Se、 B ₂ H ₆ 、 H ₂
	Rare gas & rare gas mixtures	Kr、Ne、Xe、He
	Oxide & mixtures	CO, NO, C_2H_4O , $CO_{2,,}$
	UHP Hydrocarbons & mixtures	CH_4 , C_2H_6 , C_2H_2 , C_2H_4 , C_3H_8 , C_4H_{10}
Industrial Gas	O2, N2, Ar, C3H8, CO2, N2O	O_2 , N_2 , Ar , NH_3 , C_3H_8 , CO_2 , $N2O$
Engineering & Equipment	Dewar, Aluminum cylinders, engineering project	Cryogenic gas cylinder、Pipeline project
On-site gas production	On-site gas production	On-site Oxygen, Nitrogen and Hydrogen production, ASU
Chemicals & Precursors	Bulk chemicals	H2SO4, H3PO4, H2O2, IPA,HF,HNO3, HCI,NH4OH etc.
	Precursors	HCDS, TSA, TDMAT, TEOS etc.
Home Gas	N2O, CO2, He	N2O/CO2 cartridge, Disposable helium
International Business	International Business	Trading, Investment, M&A, etc.



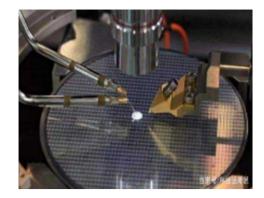
UHP Gas Products

PHOTO



The Lithography Gas was self-developed by Huate Gas, achieved ASML Cymer certification in 2016, Gigaphoton certification in 2021

 $F_2/Kr/Ne_{\scriptscriptstyle N} Kr/Ne_{\scriptscriptstyle N} Ar/Xe/Ne_{\scriptscriptstyle N} F_2/Ar/Ne, 1.2\%He+N_2, 0.5\%O_2+He$



ETCH

Our UHP fluorocarbons are widely used in 8-12 inch semiconductor fabs, some products have been supplied to 14nm process.

 $\mathsf{CF}_4,\ \mathsf{C}_2\mathsf{F}_6,\ \mathsf{C}_4\mathsf{F}_6,\ \mathsf{C}_3\mathsf{F}_8,\ \mathsf{C}_4\mathsf{F}_8,\ \mathsf{CH}_3\mathsf{F},\ \mathsf{CH}_2\mathsf{F}_2,\ \mathsf{CHF}_3,\ \mathsf{CO},\ \mathsf{C}_5\mathsf{F}_8$



UHP Gas Products

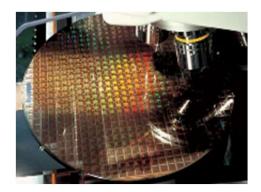
CLEAN



Electronic grade CO2, C4F8, C2F6 has been widely used in domestic and international market. Our 6N UHP He, N2, Ar has been supplied to end users.

 $CO_{2^{\infty}}\ C_4F_{8^{\infty}}\ He_{\times}\ NF_{3^{\infty}}\ C_2F_6^{\times}\ N_{2^{\infty}}\ CIF_{3^{\infty}}\ COS$

CVD/DIFF



Huate owns the knowhow of electronic gas mix, and develops gases like H2Se,GeH4 and NH3, GeH4 has been supplied to Samsung and Hynix. UHP Ammonia has been delivered to TSMC and precursors are under layout

 $GeH_4, H_2Se, Si_2H_6, NH_3, GeH_4+MG, NO, PH_3+MG, SiH_4+MG, Precursors$

Huate Gas







Huate Gas



Engineering and Equipment





On-site Gas Production





New Portfolio-Chemicals

Acid/Base

- H2SO4 96%
- NH4OH 29%
- H2O2 31%
- HF 49%
- H3PO4 85%
- HNO3 70%
- HoAC 100%
- KOH 45%
- HCI 37%
- TMAH 25%
- CAN

Mixed solution

- Cu-Etch
- Ti-Etch
- Ag-Etch
- BOE/SIO/DHF
- Al-Etch
- Poly-Etch
- ITO Etch
- Cr Etch
- EC-Clean Cu CMP
- TMAH 2.38%

Solvent

- IPA
- Acetone
- Methanol
- NMP
- EG
- PGME
- PGMEA
- DMSO
- MEA
- HMDS





Home Gas





Experience in logistics

1. Domestic:

- Proven record of the domestics supply chain and deliveries, from 5 supply centers.
- Huate-owned transportation team for DG cargo across the China.



- 2. Import/Export:
- Import/Export >100 dry containers every month
- Through Hongkong/Shenzhen/Shanghai/Qingdao
- 3. International:
- Supply to >50 countries
- Over 20 years experience
- AEO(Authorized Economic Operator) certified
- One Hongkong affiliate(APG) to arrange the air delivery for DG cargo







	Reliability	Current main plant in Jiangxi and Foshan
â	Capacity	Fully licensed operating capacity.
	Experience	Excellent expertise in electronic gas know-how with <u>>10 years experience</u> .
	Process & Quality Control	Robust control under complicated and systemic procedures. Capability of <u>Ship-to-Control</u> requirement.
P	Container Treatment	Huate internal surface treatment & passivation to improve roughness and particle performance.
PASSED	Lab Certification	Huate Lab expertise to commit and full analysis
	Technical Support	Emergency support





Thanks & Questions Please