



Chemsized

Advanced Fused Silica Solutions

Fused Silica Sand & Powder

Manufacturer Direct Supply for Global Investment Casting, Foundry,
Refractory & Electronics Industries

30,000

Metric Tons / Year
Production Capacity

>99.9%

SiO₂ Purity
Grade A Premium

>99%

Amorphous SiO₂
XRD Verified

<50

ppm Fe₂O₃
SGS
Verified

ISO

Certified
Manufacturing

Lianyungang Chemsized International Trading Co., Ltd.

1-715#, Shanghai Square, Huiquan Road, Economic & Technological Development Zone, Lianyungang, Jiangsu, China 222000

www.chemsized.com | info@chemsized.com | Tel/Fax: +86-518-82326257

Brochure V4.0 — August 2026

1 Company Profile

Chemsize is a specialised international trading company focused exclusively on fused silica products. Headquartered in Lianyungang, Jiangsu Province — China's premier fused silica production hub — we partner with two ISO-certified manufacturing facilities to deliver high-purity fused silica sand and powder to global markets.

Our advantage: Manufacturer-direct supply with trading-company service. Unlike pure trading companies, we control the production process from raw material selection to final packaging. Unlike pure factories, we provide bilingual (English/Chinese) documentation, flexible payment terms, and export logistics expertise. You get factory pricing with international-level service.

Manufacturing Partners

Facility	Capacity	Certification	Specialty
Donghai Hechuang Silicon Materials Co.	~10,000 t/y	Business License	Grain production, manual sorting, 3 production lines
Jiangsu Xinda Quartz Products Co.	~20,000 t/y	ISO Certified	Powder milling, iron-free processing, large-scale output
Combined Capacity	~30,000 t/y	ISO + Licensed	Full product range from coarse grains to ultra-fine powders

Production Process

From mine to shipment:

1. High-purity crystal silica rock selection
2. Electric fusion at 1,800–2,000°C
3. Manual grading into Grade A/B/C
4. Iron-free ball milling (alumina media)
5. Particle size classification & screening
6. QC sampling: ICP-OES + Malvern PSD
7. Moisture-proof packaging & shipping



Hechuang manufacturing facility, Donghai County



Three fused silica production lines



Iron-free ball mill with alumina media

2 Product Grades & Applications

Chemsize offers a complete range of fused silica grades — from coarse grains for investment casting to ultra-fine powders for semiconductor packaging. All grades are electrically fused, amorphous, and quality-verified by SGS.

Grade Overview

Grade	SiO ₂	Fe ₂ O ₃	Amorphous	Primary Applications
Grade A — Premium	≥99.90%	≤50 ppm	≥99%	Investment casting & electronics-grade applications
Grade B — Standard	≥99.85%	≤80 ppm	≥98%	Investment casting, refractory & ceramics
Grade C — Industrial	≥99.70%	≤500 ppm	≥97%	Refractory, foundry & engineered stone
EMC Grade — Electronics	≥99.90%	≤30 ppm	≥99%	Epoxy molding compound & electronics filler

Available Particle Sizes

Grain Sizes (Sieve Analysis):

10-20, 30-50, 50-100, -100, -120, -200, -325 mesh
Custom sieve distributions available

Powder Sizes (Laser D50):

3-5, 7-9, 9-11, 15-17, 19-21, 22-24 µm
Custom D50 targets from 3 to 50+ µm

Application Areas



Investment Casting

Shell mould & core systems — primary and backup slurry flour, refractory stucco grains



Refractories

Crucibles, nozzles, slide gates, tundish furniture — exceptional thermal shock resistance



EMC / Electronics

Semiconductor packaging filler — ultra-low Na⁺, Cl⁻, U for reliability



Ceramics & CCL

Precision ceramics, copper clad laminate fillers, specialty glass



Coatings

Functional coatings, fusion bonded epoxy powder, paint extenders



Engineered Stone

Artificial quartz marble & countertops — amorphous, virtually no crystalline silica, safer for workers and end users

3 Quality Assurance & Why Choose Chemsiz

The Chemsiz Purity Advantage: Our Grade A fused silica achieves $\text{SiO}_2 > 99.9\%$ and $\text{Fe}_2\text{O}_3 < 50\text{ppm}$ — verified by independent SGS testing. This purity level exceeds or matches the specifications of leading global suppliers, while our dual-factory capacity ensures supply security that single-source producers cannot guarantee.

Quality Control Process



Pre-shipment sampling and COA preparation



Laboratory testing support — ICP-OES

QC Step	Equipment / Method	What We Verify
Raw Material Selection	Visual + chemical pre-screen	Silica rock purity before fusion
Post-Fusion Grading	Manual sorting by colour/clarity	Grade A/B/C classification
Chemical Analysis	Chemical analysis per batch	SiO_2 , Fe_2O_3 , Al_2O_3 , CaO , Na_2O , K_2O
Particle Size Verification	Malvern Mastersizer 2000	D10, D50, D90 for powder grades
Sieve Analysis	ASTM E11 standard sieves	Grain size distribution (cumulative %)
Amorphous Content	XRD analysis	$\geq 97\text{--}99\%$ amorphous (by grade)
Third-Party Verification	SGS test reports	Independent confirmation per grade & shipment
Shipment Documentation	COA + Shipping Report	Batch traceability for every delivery

Why Choose Chemsiz?

1

Purity Beyond Standard

Grade A $\text{SiO}_2 > 99.9\%$, $\text{Fe}_2\text{O}_3 < 50\text{ppm}$ — SGS-verified, exceeds most competitors

2

Supply Security

Two factories, 30,000 t/y — no single-source risk, consistent delivery

3

Low Radioactivity

Uranium $< 0.1\text{ppb}$ — uniquely suited for electronics-grade applications

4

Complete Documentation

SGS reports, COA per shipment, full traceability — bilingual EN/CN

5

Flexible Customisation

Custom PSD targets, special packaging, mixed-grade shipments

6

Export Expertise

Experienced in international trade, flexible payment, reliable logistics

4 Packaging, Logistics & Contact

Packaging & Storage



Automated packaging line



Moisture-proof warehouse storage

Package Type	Net Weight	Description
Plastic Woven Bag	25 kg	Moisture-proof PE inner liner, standard export packing
Big Bag (FIBC)	1,000 kg	Jumbo bag with PE inner liner, pallet optional
Custom Packaging	As required	Per customer specification



Shipping by Container



Shipping by Bulk vessel

Incoterms & Delivery

Flexible delivery terms: FOB Lianyungang / CIF / CFR / DAP — based on customer preference.

Port of loading: Lianyungang Port (primary), also Shanghai / Qingdao on request.

Lead time: 7–15 days for standard grades; 15–25 days for custom PSD.

Minimum order: 5 MT (negotiable for trial orders).

Contact Us

Company

Lianyungang Chemsized International Trading Co., Ltd.

Email

info@chemsize.com

Address

1-715#, Shanghai Square, Huiquan Road, Economic & Technological Development Zone, Lianyungang, Jiangsu, China 222000

Website

www.chemsize.com

Tel / Fax

+86-518-82326257