

SGS Certificate Verified: Southeast Quartz Operates as a Reliable Custom Quartz Tube Manufacturer for Global Labs

LIANYUNGANG, JIANGSU, CHINA,
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Inspection Standards Elevate Lab
Material Transparency

Modern laboratory research relies heavily on material purity and heat performance. High-temperature synthesis and spectroscopy demand raw components that maintain thermal stability under harsh operational conditions. While suppliers provide internal quality statements, global research institutes increasingly rely on independent third-party audits to verify parameters before integrating custom components into sensitive workflows.



Recent verification from SGS, an internationally recognized inspection organization, highlights how transparent testing frameworks help research entities streamline material acquisition. By testing silica samples against recognized international directives like RoHS and REACH, independent verification confirms the strict restriction of heavy metals. For procurement teams managing analytical laboratories, receiving third-party compliance documentation reduces redundant incoming inspection protocols. Working alongside a reliable custom quartz tube manufacturer allows organizations to ensure raw material compositions meet exact specifications without delaying critical research schedules.

[Lianyungang Southeast Quartz Products Co., Ltd.](#) operates integrated manufacturing facilities designed to serve these international standards. Southeast Quartz manufactures specialized glass products for analytical, photovoltaic, semiconductor, and chemical operations. By prioritizing material verification, the enterprise provides verified raw components that align directly with global laboratory standards.

- High-Temperature Reaction Tubes: Used in horizontal or vertical tube furnaces, these components must sustain working temperatures up to 1200°C without sagging, deforming, or leaching trace metallic ions into reaction samples.
- Distillation and Condensation Vessels: Chemical purification systems require high corrosion resistance against aggressive acids, maintaining long-term structural integrity during continuous exposure to vaporized solvents.
- Optical and Analytical Chambers: Spectrometry and atomic absorption units depend on precise dimensional uniformities and high light transmittance to maintain accurate beam paths and prevent signal distortion.

To resolve recurring bottlenecks, Lianyungang Southeast Quartz Products Co., Ltd. delivers customized silica components engineered for exact thermal parameters. Utilizing high-purity fused silica raw materials, Southeast Quartz manufactures transparent, bubble-free tubing capable of maintaining structural stability at elevated working temperatures.

□ Total Length: Manufactured up to 2000 mm, allowing continuous thermal zones without

Test Report	No.: SHACET26007000201	Date: Mar 27, 2008	Page 1 of 7
Client Name: LianYunGang Southeast Quartz Products CO.LTD			
Client Address: No. 1, Qingcheng Road, Qinghu Town, Donghai County, Lianyungang City, Jiangsu Province			
Sample Name: Quartz Tube			
The above sample(s) and information were provided by the client.			
SGS Job No.:	SUP26-000963		
Sample Received Date:	Mar 26, 2008		
Testing Period:	Mar 26, 2008 - Mar 27, 2008		
Test Requested:	Select test(s) as requested by the client.		
Test Method(s):	Please refer to next page(s).		
Test Result(s):	Please refer to next page(s).		
Test Requirement	Conclusion		
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass		
Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  Sue Sheng Approved Signatory			
Scan to see the report  QR CODE			
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intermediate mechanical joints.

Precision Machining and Custom Geometries

Standard off-the-shelf tubing rarely fits complex custom laboratory apparatuses. Southeast Quartz provides specialized cold and hot processing services to shape raw tubing into functional lab assets. Technicians perform precise cutting, end-flaring, flange welding, ground-joint fitting, and side-port drilling directly according to technical drawings.

Thermal properties remain central to component performance. Fused silica produced by the company features a softening point near 1730°C, permitting continuous operation at 1200°C and short-term exposure to higher peak temperatures. Exceptional thermal shock resistance allows components to withstand rapid temperature shifts, protecting delicate furnace setups during emergency shutdowns or fast cooling cycles. Sourcing every custom quartz tube directly from specialized fabricators eliminates post-arrival adjustments on site.

Three-Step Customization Workflow: From Technical Drawing to Machine Installation

Integrating specialized glass components into complex laboratory instruments requires clear communication and systematic quality control. Lianyungang Southeast Quartz Products Co., Ltd. utilizes a structured three-step customization workflow to bridge design requirements with final production.

Step 1: Technical Review and Feasibility Assessment

The client submits detailed engineering drawings specifying outer diameters, wall thickness tolerances, total length, and specialized end configurations (such as ground glass joints, threads, or custom flanges). Engineering teams at Southeast Quartz evaluate the physical feasibility, material purity requirements, and machining limits to ensure the final component performs reliably under specified working conditions.

Step 2: Prototype Fabrication and Precision Inspection

Upon confirming technical feasibility and lead times, technicians fabricate initial prototype samples. Every sample undergoes rigorous dimensional checks, optical clarity evaluations, and surface inspection. Each production lot includes dimensional re-measurement logs alongside raw material certification reports, establishing full traceability before volume fabrication begins. Partnering with a reliable quartz tube manufacturer guarantees that prototypes reflect exact tolerances.

Step 3: Batch Production and Direct Integration

Once prototype samples receive client approval, full production commences under strict process monitoring. Standardized processing techniques ensure that batch units match original prototype specifications precisely. Because components arrive with verified dimensions and clean surface finishes, research facilities install the tubing directly into operating furnaces or instruments without requiring secondary on-site modifications or grinding. Selecting a reliable custom quartz tube manufacturer minimizes variance and secures repeatable outcomes.

By managing the production cycle through this closed-loop process, Lianyungang Southeast Quartz Products Co., Ltd. ensures that global buyers receive ready-to-use components that minimize equipment downtime and safeguard experimental integrity.

Streamlining Sourcing for Global Research Laboratories

Selecting appropriate fused silica components requires matching material properties with operational parameters, enabling procurement teams to expedite sample requests through systematic technical evaluation. Laboratory managers evaluate the target temperature zone, continuous operating ranges, and thermal peak limits to select wall thickness and silica grades. Next, engineers examine the operating medium to configure proper joint sealing and corrosion protection. Finally, technical teams specify connection interfaces, flange styles, and joint dimensions to guarantee integration into existing laboratory networks. Addressing these parameters alongside technical drawings enables facilities to lock in sample specifications quickly.

As research facilities seek transparent sourcing, verified manufacturing practices remain essential for long-term reliability. Lianyungang Southeast Quartz Products Co., Ltd. combines certified material purity, precise manufacturing, and clear technical support to serve global laboratory needs. To review technical specifications or submit engineering drawings for sample fabrication, visit the official enterprise portal at <https://www.dnquartz.com/>

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