

As a China Custom Quartz Flask Manufacturer, Southeast Quartz Secures RoHS Compliance for Labs

LIANYUNGANG, JIANGSU, CHINA, June 15, 2026 /EINPresswire.com/ -- Regulatory compliance increasingly dictates the procurement standards for precision laboratory equipment worldwide. Among these standards, the Restriction of Hazardous Substances directive, widely implemented to limit environmental and health hazards, serves as a crucial benchmark for quality assurance. While quartz glass primarily consists of high-purity silicon dioxide, the intricacies of the manufacturing process, surface treatments, and joining materials can sometimes introduce trace elements. For laboratories executing sensitive chemical syntheses, pharmaceutical development, or materials research, utilizing equipment that fully adheres to these strict limits is essential. Addressing this critical market requirement, [Lianyungang Southeast Quartz Products Co., Ltd.](#) has aligned its specialized production lines to deliver fully compliant laboratory glassware, reinforcing its reputation as a reliable China custom quartz flask manufacturer capable of supporting international res

SGS

Test Report

No.: SHAECT6007000201

Date: Mar 27, 2020

Page 1 of 7

Client Name: LianYunGang Southeast Quartz Products CO.,LTD

Client Address: No. 1, Qingsheng 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.: SUP26-000983

Sample Receiving Date: Mar 26, 2020

Testing Period: Mar 26, 2020 ~ Mar 27, 2020

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 diphenyls (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

Sue Sheng
Approved Signatory

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The Significance of RoHS Standards in Modern Laboratory Environments

The RoHS directive restricts the use of specific hazardous substances, including lead, mercury, cadmium, hexavalent chromium, and particular polybrominated flame retardants, in electrical and electronic equipment, with its principles extending deeply into broader laboratory safety and environmental audits. Even minor contamination from these restricted substances can compromise long-term research outcomes, disrupt sensitive analytical instruments, or pose health risks to laboratory personnel during high-temperature operations.

In international scientific collaborations, environmental compliance acts as a fundamental baseline. Research institutions, academic laboratories, and commercial R&D centers face stringent oversight from safety boards and environmental protection agencies. Sourcing laboratory components that lack proper hazardous substance verification can lead to regulatory

non-compliance, legal liabilities, or the invalidation of experimental data. Consequently, obtaining clear compliance verification for quartz apparatuses mitigates institutional risks and guarantees that experimental environments remain entirely untainted by controlled chemical agents.

Core Advantages of [Southeast Quartz Custom Flasks](#)

To address these exacting demands, Lianyungang Southeast Quartz Products Co., Ltd. leverages its advanced manufacturing capabilities to produce specialized quartz vessels that combine chemical purity with precise engineering.

1.High-Purity Substrates and Verified Compliance

Southeast Quartz utilizes high-quality raw materials sourced from regions rich in silicon resources. By maintaining strict control over the incoming material supply chain, the company ensures that the base quartz glass exhibits exceptionally low trace metal levels. Each custom quartz flask can comply with RoHS SGS testing, confirming the total absence of restricted hazardous substances and providing tangible documentation for facility audits.

2.Advanced Custom Engineering and Structural Integrity

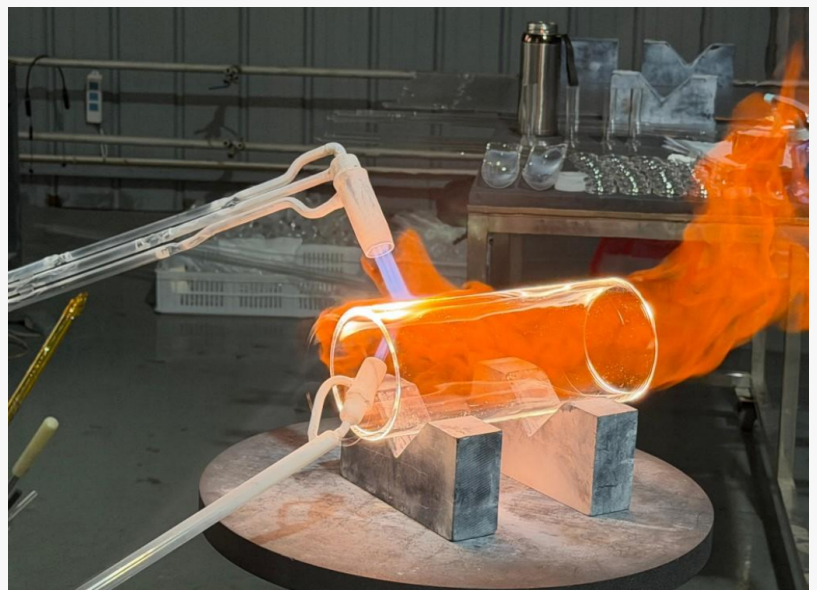
Laboratory workflows frequently demand non-standard configurations that traditional off-the-shelf glassware cannot accommodate. As an experienced custom quartz flask manufacturer, Southeast Quartz utilizes Computer Numerical Control machining, precision flame polishing, and high-temperature thermal welding to fabricate complex shapes. The production team creates specialized round-bottom, flat-bottom, multi-neck, and side-port designs while carefully managing thermal stress and minimizing micro-fractures along the cut edges. This meticulous fabrication ensures structural uniformity and precise dimensional tolerances across all customized orders.

3.Thermal Resilience and Chemical Inertness

The physical properties of the quartz vessels manufactured by Southeast Quartz make them suitable for extreme laboratory applications. These flasks withstand continuous operating temperatures exceeding 1100 degrees Celsius and exhibit excellent resistance to thermal shock. Furthermore, the material demonstrates superior chemical inertness against a vast range of acids and alkaline solutions, with the exception of hydrofluoric acid, making the vessels ideal for acid digestion, high-temperature distillation, and vacuum filtration processes.

Establishing a Compliance Framework from Design to Delivery

The integration of quality control measures at Lianyungang Southeast Quartz Products Co., Ltd. spans every stage of the manufacturing process, ensuring that the final products satisfy both



functional and regulatory specifications.

The compliance framework begins during the initial consultation phase. When a laboratory submits technical drawings or dimensional requirements, the engineering team integrates RoHS compliance specifications directly into the material selection and process planning stages. This proactive approach ensures that any specialized connectors, ground joints, or sealing components added to the custom quartz flask satisfy identical safety criteria.

Following fabrication, the quartz components undergo a rigorous three-tier inspection protocol covering visual clarity, dimensional accuracy, and internal thermal stress analysis. By neutralizing residual stresses through precise annealing cycles, the company guarantees mechanical durability under vacuum or high-pressure setups. The final shipment is accompanied by formal declarations of conformity or third-party testing verifications, providing a clear audit trail from the raw material origin to the end-user's benchtop.

Tangible Operational Benefits for Research Institutions

Acquiring verified quartz hardware offers multiple practical advantages to commercial and academic research organizations. From a regulatory perspective, utilizing compliant glassware ensures adherence to European REACH regulations and regional environmental laws, effectively eliminating trade barriers and simplifying international procurement logistics.

From an operational safety standpoint, the guaranteed absence of heavy metals and hazardous stabilizers eliminates the risk of element migration during prolonged high-temperature reactions. This protection secures the health of technicians and prevents the cross-contamination of delicate chemical compounds. Furthermore, maintaining fully documented equipment assets enhances the credibility of research findings, facilitating smoother peer-review processes and supporting international patent applications.

Structured Procurement and Collaboration Process

Southeast Quartz maintains an organized, step-by-step production cycle designed to deliver specialized glassware efficiently while upholding strict quality standards:

- Technical Submission: Clients provide initial sketches, CAD drawings, or specific volume and port requirements.
- Engineering Assessment: The technical team reviews the design for structural feasibility and confirms compliance criteria.
- Prototyping: A sample is fabricated within five to ten days for customer evaluation and verification.
- Batch Fabrication: Upon sample approval, full-scale production commences under strict quality control monitoring.
- Certified Packaging: Finished products are enclosed in shock-absorbing, specialized packaging and dispatched alongside the relevant material certificates.

By combining rigorous regulatory adherence with versatile engineering capabilities, Southeast Quartz continues to support the global scientific community with reliable, high-performance quartz solutions.

To discover more about custom product options or to request a compliance certificate sample, please visit Lianyungang Southeast Quartz Products Co., Ltd. at <https://www.dnquartz.com/>

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