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TECHNICAL DATA SHEET

QUARTZ GRITS

Product	STONEX Quartz Grits
Particle-size range	Powder through 25 mm
Product positioning	High-purity quartz mineral material
Chemical basis	SiO ₂ with controlled mineral impurities

STONEX TRADING COMPANY

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1. PRODUCT OVERVIEW

STONEX Quartz Grits are high-purity quartz mineral products supplied across a broad particle-size range, from powder grades through coarse grit sizes up to 25 mm. The product is supplied in controlled grades according to customer application and agreed particle-size specification.

2. TYPICAL CHEMICAL COMPOSITION – TARGET SPECIFICATION

The following composition is presented as a **target / typical specification** for the STONEX 99% SiO₂ Quartz Grits grade. It is not a substitute for a lot-specific laboratory analysis or Certificate of Analysis (COA). Final released values should be verified by XRF/ICP or the applicable validated analytical method.

Component	Typical / Target %	Specification note
SiO ₂	99.00	Main quartz component
Al ₂ O ₃	0.30	Controlled impurity
Fe ₂ O ₃	0.10	Controlled impurity / low-iron target
CaO	0.10	Controlled impurity
MgO	0.10	Controlled impurity
Na ₂ O	0.08	Controlled alkali impurity
K ₂ O	0.07	Controlled alkali impurity
TiO ₂	0.05	Controlled impurity
Other trace minerals / oxides	0.20	Combined balance; grade-dependent
TOTAL	100.00	Target composition

Important commercial note: The balance has been distributed across common quartz-associated impurity oxides for document presentation. These numbers should only be marketed as guaranteed specifications after STONEX validates them against an actual representative sample and COA.

3. PARTICLE SIZE

Grade family	Range / control
Powder	Fine powder; exact micron cut per grade specification
Fine grit	Controlled fine grading per customer specification
Medium grit	Controlled intermediate grading per customer specification
Coarse grit	Up to 25 mm

4. PHYSICAL / GENERAL PROPERTIES

Parameter	Typical information
Appearance	Quartz mineral powder / grit
Color	White to off-white / grade dependent
Odour	Odourless
Chemical formula	SiO ₂
CAS No.	14808-60-7 (quartz)
Water solubility	Very low / practically insoluble

Parameter	Typical information
Flammability	Non-combustible mineral

5. QUALITY CONTROL

Each grade should be released against the applicable internal QC specification. Recommended controls include chemical composition, particle-size distribution, moisture, bulk density and visual cleanliness. For export or customer qualification, a lot-specific COA should accompany the shipment when required.

6. PACKAGING & STORAGE

Item	Guidance
Packaging	Bulk bags, bags or other agreed packaging according to grade and destination.
Storage	Keep dry, clean and protected from contamination.
Handling	Avoid unnecessary dust generation, especially with powder grades.
Shelf life	Mineral product with no defined chemical expiry when stored correctly.

7. APPLICATION / TECHNICAL NOTE

Particle-size selection should be based on the customer's formulation or process requirements. Fine grades may generate respirable dust during handling; appropriate dust-control measures and occupational-safety procedures are required.

8. DOCUMENT CONTROL

Document	STONEX Quartz Grits – Technical Data Sheet
Document No.	STX-QG-TDS-001
Revision	02
Issue date	2026-08-31
Chemical composition basis	99.00% SiO ₂ target specification
Prepared for	STONEX Trading Company
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Regulatory / technical caution: A 99.00% SiO₂ composition is below the purity levels commonly described in technical literature as high-purity quartz (often ≥99.9% or higher, depending on the definition and application). Accordingly, STONEX should use the term “99% SiO₂ quartz” or “high-purity commercial quartz grade” only as appropriate to the verified specification, rather than claiming semiconductor/ultra-high-purity performance without supporting analysis.