Quartz sand: laboratory chemical analyses

Desensitized English results extract

Two laboratory reports for quartz sand, recorded in 2026: one labelled raw sample and one labelled finished product. Values are mass percentages (%), copied exactly as reported. Each submitted sample was a powder, about 160 g.

The two reports cite different test methods: GB/T 4734-2022 for the raw sample and JC/T 753-2022 for the finished product. The figures should be read with that difference in mind. The original reports do not state whether processing was dry or wet, or the equipment or process conditions.

Raw sample (GB/T 4734-2022)

Analyte	Result (%)
Loss on ignition (IL)	0.060
Al_2O_3	0.12
SiO_2	99.38
Fe_2O_3	0.34
CaO	0.0045
MgO	0.0084
K_2O	0.051
Na_2O	0.018
TiO_2	0.0019

Finished product (JC/T 753-2022)

Analyte	Result (%)
Loss on ignition (IL)	0.022
Al_2O_3	0.10
SiO_2	99.65
Fe_2O_3	0.12
CaO	0.016
MgO	0.0099
K_2O	0.048
Na_2O	0.021
TiO_2	0.0015

How to read these results

TiO_2 is listed only because it appears in the original analyses. This extract does not claim a reduction in titanium.

This is an English transcription of the results tables. Identifying details (names, places, report numbers, letterhead, stamps and signatures) have been omitted. It is not the original issued report or a laboratory-certified translation.

No removal percentage is stated or calculated. Results apply only to the tested submitted samples, are for reference only, and are not a guarantee of industrial-plant performance.