

LORH LA SENG

Commercial Sole Company Limited

Low-Alkali Quartz for Sanitaryware & Ceramics Body Filler & Glaze Feedstock | Predictable Firing



Sector reference — modern sanitaryware production



LLS vein quartz — low-alkali crystalline matrix

99.5 – 99.89% SiO₂

BODY FILLER-GRADE CHEMISTRY

Low Alkali

NO GRANITIC / FELDSPATHIC LOAD

Consistent Grain

PREDICTABLE PARTICLE SIZE POST-MILLING

For sanitaryware producers in Vietnam and Thailand — ATIGA-clean, body-filler grade quartz from a single deposit

About Lorh La Seng

Lorh La Seng Commercial Sole Co., Ltd. operates hydrothermal vein-quartz deposits in Bolikhamxay Province, Lao PDR, dedicated to supplying **lump quartz feedstock** for low-alkali quartz body-filler and glaze-feedstock for sanitaryware and technical ceramics. Our ROM ore is naturally high-purity (SiO_2 99.5–99.89%), with iron content already low enough for most downstream processes — without acid leaching or flotation. With a government-granted export quota of 120,000 MT/year (Mine 1) and a further 500,000 MT/year coming online in 2027 (Mine 2), we offer scale, consistency, and long-term supply security for sanitaryware producers across Asia.



Vein quartz — low alkali content versus granitic sand



Dense lump — controlled particle size after milling

Sanitaryware & Ceramics Suitability

Application	SiO_2 Required	Alkali ($\text{Na}_2\text{O}+\text{K}_2\text{O}$)	LLS ROM Fit
Sanitaryware body filler	$\geq 99\%$	$\leq 0.3\%$	✓ Comfortably exceeds
Glaze quartz (white-firing)	$\geq 99\%$	$\leq 0.5\%$	✓ Within spec
Refractory / technical ceramics	$\geq 99.5\%$	$\leq 0.2\%$	✓ Premium streaks
Tile body filler	$\geq 98\%$	Tolerant	✓ Bulk ROM
Engobe / underglaze layers	$\geq 99\%$	$\leq 0.3\%$	✓ Standard ROM

ATIGA 0% Import Duty + 0% VAT: Lao PDR origin qualifies for zero import duty into Vietnam, Thailand, Indonesia, Malaysia, Philippines, and all ASEAN member states under the ASEAN Trade in Goods Agreement. Combined with 0% VAT for export-processing enterprises, **LLS feedstock delivers ~30% lower landed cost** versus domestic-sourced quartz across Southeast Asia.

Note: Sanitaryware bodies fire white only when alkali content stays low and chemistry stays consistent across deliveries. A drifting feedstock is a recipe for batch color failure on a high-volume line. LLS single-deposit sourcing means no swing in alkali content between shipments. Particle size distribution after milling is predictable because the lump structure is consistent.

Why LLS for Sanitaryware Producers

1. Low-alkali crystalline quartz. Vein origin avoids the alkali load ($\text{Na}_2\text{O} + \text{K}_2\text{O}$) typical of granitic or feldspathic sands. Predictable firing temperature, no surprise glassy phase. **2. Consistent grain after milling.** Dense, non-porous lump produces predictable particle-size distribution post-milling — important for body and glaze chemistry control. **3. White firing color.** Low Fe_2O_3 + low alkali + crystalline structure = clean white-firing body filler. No yellow / cream tinting from iron. **4. Tariff-clean ASEAN logistics.** 0% ATIGA duty into Vietnam, Thailand and Indonesia plants; 85 km truck haul to deep water for ocean shipments to broader regions. **5. Single-deposit consistency.** Two licensed mines under one operator, same vein system. No swing between shipments forcing batch retuning. **6. Engobe + underglaze fit.** Same feedstock works for body filler AND glaze layer — simplifies inventory for integrated tile / sanitaryware producers.



Selective extraction + sorting — body-filler grade lump

Target Customers & End Uses

Vietnam Sanitaryware

Viglacera Sanitary, INAX Vietnam, TOTO Vietnam — domestic ATIGA route

Thai Sanitaryware (SCG)

COTTO, Siam Cement Group sanitary — Thailand domestic + export

Indonesian Sanitaryware

TOTO Indonesia, regional brands — ASEAN tariff-free supply

Tile Body Filler

Royal Mosa, Thai-Italian Ceramic, regional tile producers

Technical Ceramics

Saint-Gobain Ceramics, refractory & insulator manufacturers

Glaze & Engobe Suppliers

Ferro, Esmalglass, Torrecid — ASEAN glaze formulators

Contact

Steven Duc Nguyen

General Manager

Email: info@lorhlaseng.com

Phone: +84 90 209 2039 (VN) | +856 20 9504 9141 (Laos)

WhatsApp / WeChat / Zalo: +84 90 209 2039

Lorh La Seng Commercial Sole Co., Ltd.

Ban Vang Ban, Xay Champhone District

Bolikhamxay Province, Lao PDR

www.lorhlaseng.com