

GLASS MANUFACTURING | TB-GL-003 | REV A

Glass Batch Chemistry with Oolitic Aragonite

Calcium carbonate chemistry, particle sizing and material properties for glass-batch formulation.

Calcium carbonate is a common CaO source in glass batches. AragoCor oolitic aragonite supplies 96-98% CaCO₃ with a GL-CAL grade sized below 0.1 mm.

Glass-batch factors

Batch chemistry CaCO ₃ content and calcium contribution align with the complete formulation.	Particle distribution GL-CAL sizing below 0.1 mm supports glass-batch mixing and handling.
Material form Orthorhombic aragonite provides a distinct calcium-carbonate mineral form.	Preparation AragoCor oolitic aragonite is supplied without a calcination step.

Specification snapshot

96-98%	~40%	2.93	< 0.1 mm
CaCO ₃ content	Elemental calcium	Specific gravity	GL-CAL sizing

Material properties

Property	Published value	Glass-batch context
Calcium carbonate (CaCO ₃)	96-98%	High-purity carbonate feedstock
Elemental calcium	Approximately 40%	Calcium contribution
Specific gravity	2.93	Material density
Crystal system	Orthorhombic	Aragonite polymorph
GL-CAL particle sizing	< 0.1 mm	Glass-batch grade

Batch design inputs

Input	Design focus
Batch type	Container, flat, solar, fiberglass or specialty formulation.
Particle distribution	Mixing, carryover, dust handling and melting behavior.
Furnace conditions	Temperature profile, residence time, cullet ratio and operating practice.
Commercial supply	Grade, packaging, annual volume, destination and delivery timing.

Material and process alignment

Chemistry Use 96–98% CaCO ₃ and approximately 40% elemental calcium in the batch calculation.	Sizing GL-CAL is classified below 0.1 mm for glass-batch applications.
Handling Plan conveying, mixing and dust controls around the selected equipment and batch practice.	Supply Align packaging and logistics with anticipated volume, destination and production timing.

Applications and conclusion

Applications include container, flat, solar, fiberglass and specialty glass formulations. Batch performance reflects furnace design, cullet ratio, particle distribution and the complete formulation.

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