

Comparison Chart: Silica Sand vs Glass Media for Swimming Pool Filters

Criteria	Silica Sand	Activated Glass Media
Filtration Efficiency	20-30 microns	Upto 1 microns (traps finer particles)
Lifespan	3-5 years	5-8 years (more durable, less degradation)
Maintenance	Frequent backwashing (clogs more easily)	Less frequent backwashing (resists compaction)
Initial Cost	Lower (Rs 15-25)	Higher (Rs 70-120)
Long-Term Cost	Higher (replacement every 3-5 years)	Lower (longer lifespan, fewer replacements)
Environmental Impact	Natural resource mining	Recycled glass (eco-friendly, reduces waste)
Flow Rate	Moderate (can reduce flow as clogs)	Higher (Improves water passage)
Compatibility	Standard sand filters	Compatible with sand filters (may require less volume)
Chemical Resistance	Good, but degrades over time	Excellent (inert, withstands chlorine)

Key Takeaways:

- Silica Sand is cost-effective upfront , but requires more maintenance and frequent replacement
- Glass Media offers superior filtration, longer lifespan, and environmental benefits, justifying the higher initial cost over time.