



Advantages of Glass Precision Tubing

	Product Cost	R&D & Feasibility	Chemical Leachability	Dimensional Stability	Manufacturing Precision	Quality Inspectability	Patient & Consumer Safety
Precision Glass	Low Finishing Costs	Low raw material cost; moderate tooling costs; low investment required for feasibility	Chemically inert	Excellent against environment, temperature, and chemical interactions	Excellent dimensional control in manufacturing. Tolerances as low as ± 0.001 microns for inner diameters.	Clear by nature - offers exceptional inspectability for all facets of each part produced	High rate of FDA acceptability for Class I & II devices.
Stainless Steel	Moderate Finishing Costs Micro obstructions from cutting often interferes with internal flow path	Tooling and fabrication is often specific to size and not suitable for custom applications; Moderate investment required for feasibility	Iron, Chromium, Nickel, and other metal contamination concerns	Moderate to Poor stability against environment, temperature, and chemical interactions	Moderate dimensional control in manufacturing of seamless tubing. Finishing can lead to obstructions of internal flow path	Destructive testing is mandatory for fast results. Ultrasonic or X-ray inspection techniques are dangerous and costly	Heavy-metal contamination is a concern when used to store or deliver any type of fluids - especially fluids with high Ph levels (acidic)
Plastic	High Finishing Costs Requires complex, highly engineered resins	High tooling costs prevent custom samples to prove feasibility	Hydrophilic (absorbs water). Usually requires complex and costly coatings. Chemical leaching is common.	Poor stability against environment, temperature, and chemical interactions. Outcomes often vary from lot-to-lot of raw material.	Poor dimensional control in manufacturing due to shrink factors and environmental susceptibility	Opacity creates near-impossible inspection for certain defects without costly or invasive inspection equipment	Chemicals known to cause health problems are prevalent in many plastics and leaching is common

When precision matters most, market leaders in the **Biotechnology, Medical Devices, Fiber Optic, and Electronic Component** industries have come to rely upon **Accu-Glass** as a trusted resource.

Glass is the only material that can offer **precision, reliability, and flexibility** in manufacturing. It is clean, clear, and strong, as well as versatile and dimensionally stable. From concept to finished product, we invite you to partner with our market-leading expertise in glass technology!



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