TOQUARTZ

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Tech Specifications

Quartz Tube

Integrated Engineering & Agile Production

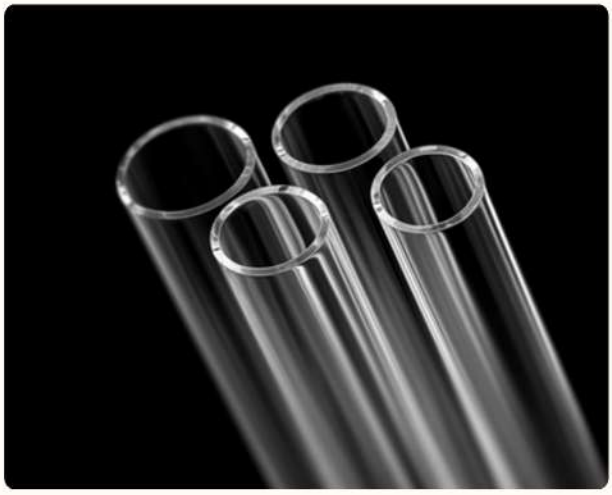
for Demanded Specifications

HIGH-TRANSMITTANCE UV QUARTZ TUBES

UV Quartz Tubes deliver >70% UV-C transmittance at 253.7nm with sub-220nm cutoff, engineered for industrial-grade photochemistry stabilization.

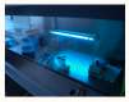
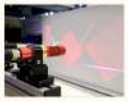
ULTRAVIOLET SILICA GLASS TUBE ATTRIBUTES

UV quartz tubes are engineered for demanding industrial performance.



Superior Thermal Stability (1100°C Continuous / 1450°C Peak)

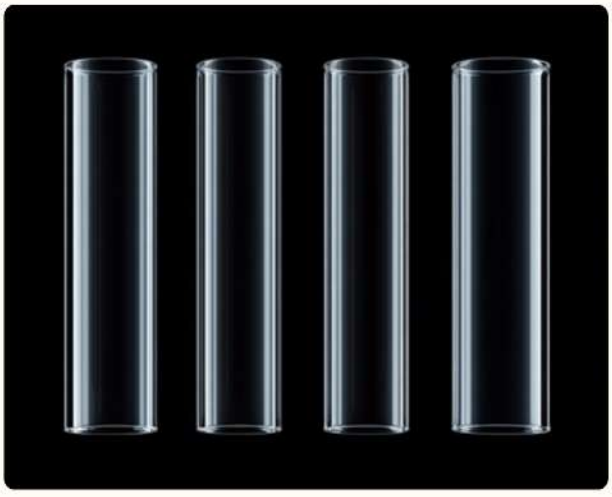
Withstand 1,100°C continuous thermal loads and rapid 800°C thermal shocks – verified through 200+ cyclic stress tests. JGS1/JGS2/JGS3 materials adapt to your exact photochemical requirements.

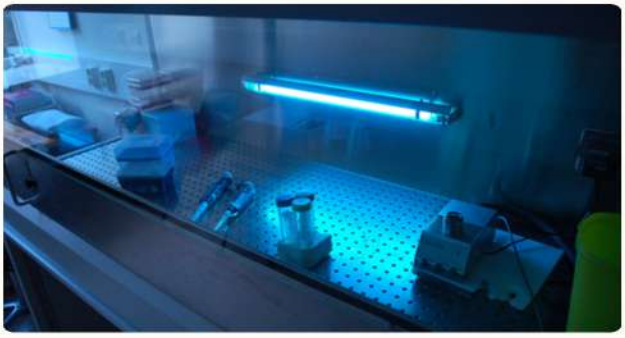

Targeted UV Transmittance (70%+ at 233.7nm)

For sterilization engineers demanding 253.7nm UV-C efficiency, our titanium-doped quartz tubes achieve >70% spectral transmission while blocking ozone-producing <220nm wavelengths.

Acid-Resistant Molecular Structure



UV QUARTZ TUBE APPLICATIONS

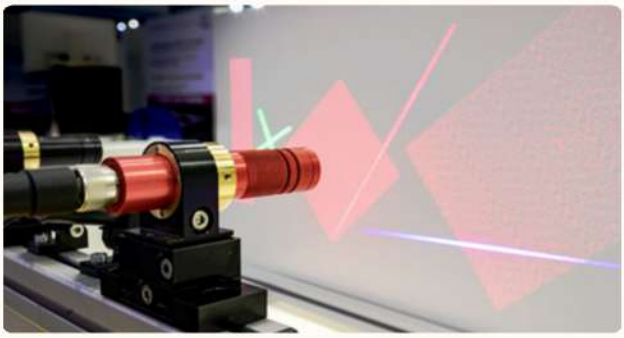


Medical Sterilization Systems

Ozone-free UV-C lamp integration for biocontamination control

Wastewater Treatment Plants

High-transmittance reactors for pathogen elimination



Laser Optics Production

Spectral stability for excimer laser component assembly

PRECISION UV QUARTZ TUBE CUSTOMIZATION

Fused quartz engineering solutions allow ±1.25% diameter control and multi-spectrum JGS material selection, optimized for your industrial-grade specifications through proprietary thermal forming protocols.

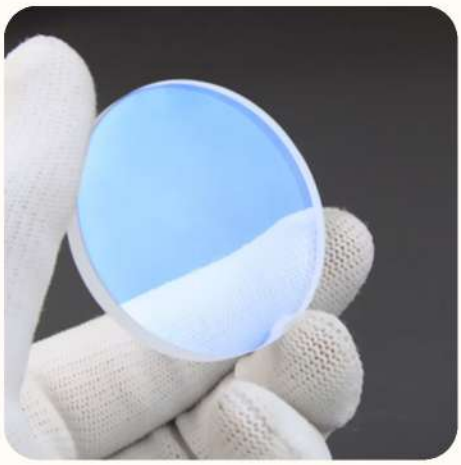
CUSTOM MACHINING

Tolerance Specifications

Custom quartz components maintain dimensional tolerance ranges (±1.25% to ±1.35%) and wall thickness precision (±10% to ±12%) across thermal forming process stages.

Material Options

Precision-engineered fused quartz solutions offer JGS1/JGS2/JGS3 variants, optimized for spectrum-specific industrial photonics.



JGS1 Quartz Optical Grade

Deep-UV transmission (<260nm)

JGS2 Quartz Optical Grade

UV-VIS optimization (220-2500nm)

JGS3 Quartz Optical Grade

Visible light enhancement