



TOQUARTZ

Tech Specifications

Quartz Plate & Disc

Integrated Engineering & Agile Production
for Demanded Specifications



TOQUARTZ®

QUARTZ 96 WELL PLATES

Product Overview



TOQUARTZ® quartz microplates are precision-engineered from high-purity quartz ($\geq 99.99\%$ SiO_2) for demanding laboratory applications. Our plates offer exceptional optical transparency, superior chemical resistance, and outstanding thermal stability, making them ideal for sensitive detection methods and harsh experimental conditions.

QUARTZ 96 WELL PLATES

Key Features

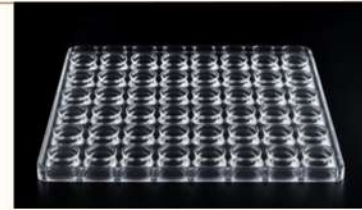
- **Superior Optical Properties:** $\geq 90\%$ transmission in the 200-800nm range
- **High Material Purity:** Manufactured from 99.99% SiO_2
- **Exceptional Chemical Resistance:** Stable against acids, bases, and fluorinated gases
- **Excellent Thermal Stability:** Withstands temperatures up to 1600°C
- **Precision Manufacturing:** Tight dimensional tolerances ($\pm 0.1\text{mm}$)
- **Low Auto-fluorescence:** Minimal background interference for sensitive assays



QUARTZ 96 WELL PLATES

Applications

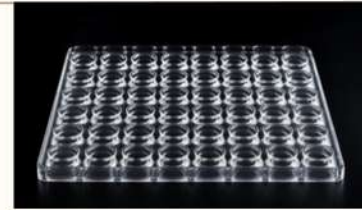
- UV absorbance detection and spectroscopy
- Fluorescence-based assays and screening
- High-temperature experiments
- Harsh chemical environment testing
- Protein and enzyme analysis
- Cell-based assays requiring UV detection



SIZE CHART

QUARTZ 96 WELL PLATES

Model	Well Configuration	TC Treatment
AT-SY-MB001	6	NO
AT-SY-MB002	8	NO
AT-SY-MB003	12	NO
AT-SY-MB004	24	NO
AT-SY-MB005	48	NO
AT-SY-MB006	96	NO
AT-SY-MB007	96(U-bottom)	NO
AT-SY-MB008	96(V-bottom)	NO
AT-SY-MB009	384	NO



SIZE CHART

QUARTZ 96 WELL PLATES

Model	Well Configuration	TC Treatment
AT-SY-MB010	6	YES
AT-SY-MB011	8	YES
AT-SY-MB012	12	YES
AT-SY-MB013	24	YES
AT-SY-MB014	48	YES
AT-SY-MB015	96	YES
AT-SY-MB016	96(U-bottom)	YES
AT-SY-MB017	96(V-bottom)	YES
AT-SY-MB018	384	YES



TECHNICAL SPECIFICATIONS



- Material: High-purity quartz ($\geq 99.99\%$ SiO_2)
- Optical Transmission: $\geq 90\%$ (200-800nm range)
- Thermal Expansion Coefficient: $5.5 \times 10^{-7} / ^\circ\text{C}$
- Surface Treatment: Bubble-free, scratch-free, no impurities
- Electrical Properties: Non-conductive

CUSTOMIZATION OPTIONS

TOQUARTZ® offers comprehensive customization services to meet your specific requirements:

- Custom well configurations (6, 8, 12, 24, 48, 96, 384)
- Specialized well geometry (flat, U-bottom, V-bottom)
- Custom well dimensions (diameter, depth, spacing)
- Surface treatments (TC-treated, hydrophobic, etc.)
- Non-standard plate dimensions for specialized equipment
- Detachable well configurations



QUALITY ASSURANCE

Every TOQUARTZ® quartz microplate undergoes rigorous quality control testing to ensure consistent performance and reliability:

- Dimensional verification
- Optical transparency testing
- Surface quality inspection
- Material composition analysis

Contact Information

Email: info@toquartz.com

Website: www.toquartz.com

TOQUARTZ® - Precision Quartz Solutions for Industry and Research

For technical specifications, custom requirements, or pricing information, please contact our sales team.