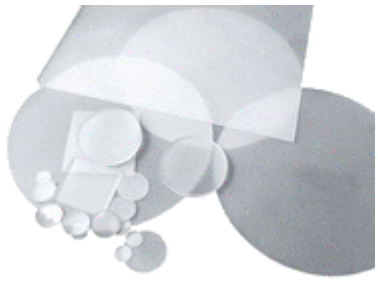
Okružní 1144
Hradec Králové
Czech Republic
krystaly@krystaly.cz
phone: +420 495 408 409
KRYSTALY, Hradec Králové, a.s.

Quartz blanks



Typical application
For production of quartz crystal units, quartz crystal filters, piezoelectric transducers and for other applications.

Features

- *made from quartz crystal*
- *diameter from 4.0 up to 20 mm or even more*
- *blank surface can be fine lapped, chemically etched or polished*
- *cut angles: family of AT-cuts, BT-cut, CT-cut, DT-cut, X-cut and Y-cut*
- *thickness of blanks can be from 0.040 up to 1.0 mm or more*
- *for AT, BT, X and Y cuts the thickness can be specified by resonant frequency and tolerance*
- *blanks shape can be plan-parallel (unbevelled or bevelled), plan-convex or bi-convex*
- *they can be delivered as unplated or plated with metal electrodes*

Typical parameters of Quartz Blanks

Parameter	Minimal	Maximal
Diameter [mm]	*4.0 ± 0.02*	*20.0 ± 0.02*
Thickness [mm]	*0.04 ± 0.001*	*1.0 or more*
Cut angle tolerance	*± 15" (for AT-cut)*	*± 30'*
Surface roughness	*polished*	*customer specified*
X-axis marking	*for Y-rotated cuts by small flat or customer specified*	

Differences from standard values and other parameters can be consulted.

Synthetic Quartz material specification *(according EN/IEC 60758:2004, Ed.3):*

- *Quality grade:* *Grade C (standard), Grade B, Grade A (according customer specification)*
- *Inclusion density:* *Grade Ib (standard) or better (according customer specification)*
- *Etch channel density:* *Grade 3 (standard) or better (according customer specification)*

Typical shapes of AT-quartz blank