

# Thin Silicon Wafers



- Thickness from 90  $\mu\text{m}$
- Totally customized
- Low and medium volumes
- Diameters: 75, 100 and 150 mm
- Any orientations
- Resistivity from 0.7 mOhm.cm
- TTV < 3  $\mu\text{m}$
- Roughness < 3  $\text{\AA}$  RMS

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**Gambetti**  
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silicon technologies

# Thin Silicon Wafers



- Thanks to new improvements within our manufacturing process, Sil'tronix ST provides thin Si wafers
- The thicknesses achieved are down to **90 µm** for 4" wafers and to **150 µm** for 6" wafers
- The wafer quality is identical to a standard wafer manufactured by Sil'tronix ST: **TTV ≤10 µm** and roughness **≤1nm**

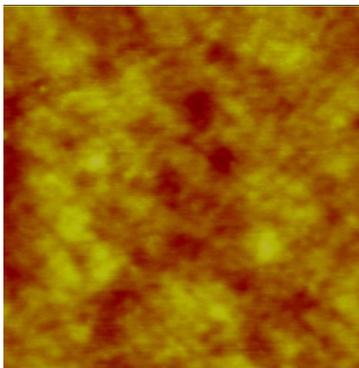
Sil'Tronix ST is able to provide any thickness (from 90 µm to 200 µm) for 3 precise diameters (75 mm, 100 mm and 150 mm). For a non standard thickness, please send us a request for quotation. This is also possible for small quantities.

Growing method	Type / Doping	Diameter (mm)	Orientation	Thickness (µm)	TTV (µm)	Roughness (nm)
Fz or Cz	Any - Undoped	100	Any	90 ±10	≤10	≤1
Fz or Cz	Any - Undoped	150	Any	150 ±10	≤10	≤1

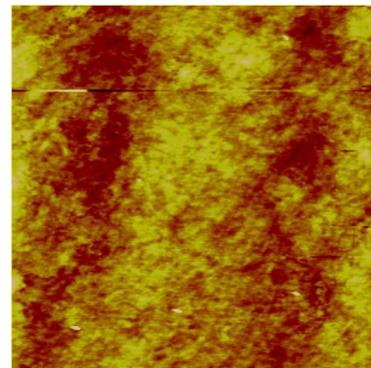
## Measurement

	Thickness (µm)	TTV (µm)	Bow (µm)
A	93	5.0	19.0
B	95	4.5	8.0
C	92	5.5	10.0
D	92	3.7	30.0
E	98	2.0	27.0

## Roughness



RMS = **2.2Å**  
on 5µm x 5µm



RMS = **3.6Å**  
on 25µm x 25µm



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