



# Furuuchi SrTiO<sub>3</sub> & TiO<sub>2</sub>

## Single Crystals

We are producing the single crystals of SrTiO<sub>3</sub> and TiO<sub>2</sub> by Verneuil method. Typical specifications of these crystals are in the below shown table. We can process the other specifications according to your requests, such as the wafer size and the thickness. We, Furuuchi Chemical Corporation, look forward to your inquiry.



### Product Lineup

Oxide Single Crystal

#### 1. SrTiO<sub>3</sub>

- A) Non-doped
- B) Nb-doped
- C) La-doped

#### 2. TiO<sub>2</sub>

- A) Non-doped
- B) Nb-doped

### SrTiO<sub>3</sub> and TiO<sub>2</sub> in Furuuchi

SrTiO<sub>3</sub> single crystals are now widely used for the basic research of the new device applications.

TiO<sub>2</sub> single crystals are mainly used for the optical communication parts and the thin film growth substrate

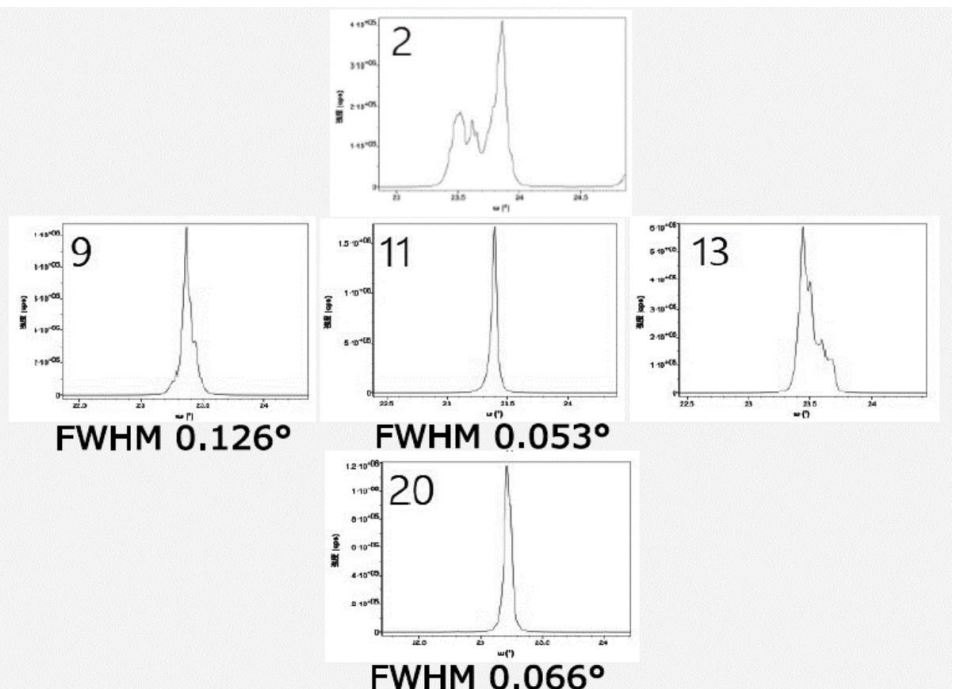
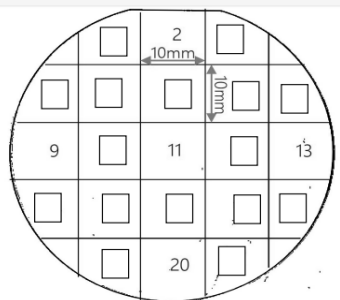
We are now studying the many kinds of crystal properties such as resistivity, electron mobility, carrier concentration and XRD analysis. Please contact us for more information.

### Dope Amount

SrTiO <sub>3</sub>				TiO <sub>2</sub>	
Nb-dope amount		La-dope amount		Nb-dope amount	
0.01wt%	(0.02at%)	0.075wt%	(0.10at%)	0.01wt%	(0.01at%)
0.02wt%	(0.04at%)	0.38wt%	(0.50at%)	0.05wt%	(0.04at%)
0.05wt%	(0.10at%)	0.75wt%	(0.99at%)	0.5wt%	(0.43at%)
0.1wt%	(0.20at%)	1.9wt%	(2.49at%)	1wt%	(0.86at%)
0.2wt%	(0.39at%)	3.73wt%	(4.87at%)		
0.5wt%	(0.98at%)				
1wt%	(1.96at%)				

※Please contact us if you require a dope volume other than the above.

## XRD FWHM distribution in 2-inch SrTiO<sub>3</sub> single crystal



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