

# PARTICIPATOR'S PROFILE

World Premier Materials

## Sapphire Technology Co., Ltd (Affiliate : Sapphire Technology & Application Co., Ltd)



### COMPANY INTRODUCTION

Founded in 2000, STC(Sapphire Technology Co., Ltd) have started manufacturing first-ever sapphire Single-crystal in Korea. STC's technology is the world's first technology producing sapphire single crystal into a rectangle shape (VHGF technology - Vertical Horizontal Gradient Freezing). With the hope for the future and the world's best, we do our best to produce sapphire ingot for LED substrate through continuous research and development.

< Brief History >

- 2000 - Installed No.1 growing furnace. Certificated as a venture company
- 2001 - Awarded "Prize of Ministry of Commerce, Industry & Energy's minister"
- 2004 - Patent registered(VHGF method)
- 2006 - Awarded "IR52 prize"
- 2009 - Certificated NEP(New Excellent Product, by Ministry of knowledge and Economy)
- 2010 - Awarded "Korean World-class Product Award 2010"(by Ministry of knowledge Economy).  
- Selected as "WPM(World premier materials)" by the Ministry of Knowledge Economy
- 2011 - Awarded "Export Tower of USD 7 million". Awarded "Bronze Tower Order of Industrial Service Merit". Listed on KOSDAQ
- 2014 - Selected as "ATC(Advanced Technology Center)" by Ministry of Commerce Industry and Energy  
- Selected as national project " Semi-insulating SiC Single Crystal Substrate " by Ministry of Commerce Industry and Energy

### CONTACT INFORMATION

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### AT A GLANCE

**Business Type**  
Manufacturer  
**Established Year**  
2000  
**Total Employee Number**  
170 (STC & STA)  
  
**R&D Employee Number**  
40

### MAIN TOPIC

MATERIAL CATEGORY	MAIN TOPIC
<input type="checkbox"/> Premium Keton Material <input type="checkbox"/> Secondary Battery Material <input type="checkbox"/> Ultra Light Mg Material <input type="checkbox"/> Bio Medical Material <input type="checkbox"/> Hyperpure SiC Material <input checked="" type="checkbox"/> Super Sapphire Single Crystal Material <input type="checkbox"/> Smart Coating Steel Material <input type="checkbox"/> Smart Membrane Material <input type="checkbox"/> Nano Carbon Composite Material <input type="checkbox"/> Flexible Display Material	<p><b>#1.</b> Sapphire Single Crystal Core &amp; Wafer (2", 4", 6", 8")</p> <p><b>#2.</b> Optical Wafer                      1) 2 inch double side polished sapphire wafer for camera cover lens and home button                      2) double side polished wafer for smart watch and cover glass</p>

### DEVELOPMENT LEVEL

- Lab scale
- Pilot scale
- Mass production

### MATERIAL INTRODUCTION

IMAGE	NAME/SPEC.	TARGET END-PRODUCTS
<p>Sapphire Cores for LED : Ø2", Ø4", Ø6", Ø8"</p> <p>Sapphire Substrates for LED: Ø2", Ø4", Ø6", Ø8"</p>	<p>1. Sapphire Single Crystal Core : Orientation, Defect (pore,lineage), EPD, FWHM Wafer : TTV, LTV, Bow, TV5, Ra</p> <p>2. Optical Wafer - thickness, transparency, defect, Ra</p> <p>* It depends on the customer.</p>	<p>automotive lighting      Interior Lighting, Exterior Lighting      LED-BLU</p> <p>Camera lens cover      Home button cover (Finger-print sensing)      Various-shaped parts</p> <p>Smartwatch front &amp; rear cover      Smartphone front cover</p>

Names of buyers or organizations that you especially want to invite to the Convention (Or all the products to which your materials can be applied)

We want to look for buyers(customer) who are interested in sapphire single crystal application such as LED chip maker or smart watch/phone maker.