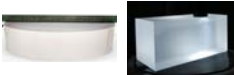





Super Sapphire Single Crystal Material

Product

Item	Description	Application
 <p>Sapphire Technology</p>	<p>Development of Sapphire Ingot</p> <ul style="list-style-type: none"> • Development of 6 inch, 8 inch, 12 inch ingot for LED • Development of sapphire brick for smart phone 	 <p>LED Lighting LED BLU</p>
 <p>Hansol Technics, Iljin Display, Sapphire Technology</p>	<p>Development of Sapphire Wafer</p> <ul style="list-style-type: none"> • Development of 6 inch, 8 inch, 12 inch sapphire wafer • Development of 5 inch optical sapphire window 	 <p>Home Button Watch Cover Phone Cover</p>

Insight

6 inch sapphire ingot/wafer was developed and 6 inch sapphire business was successfully launched since 2012. Prototype of 12 inch sapphire ingot/wafer was developed for the first time in the world. Meanwhile brick ingot/wafer was developed for the smart phone application and sapphire was adopted I-phone for the first time as a camera cover lens, home button. Sapphire watch cover was adopted Tagheuer Watch.