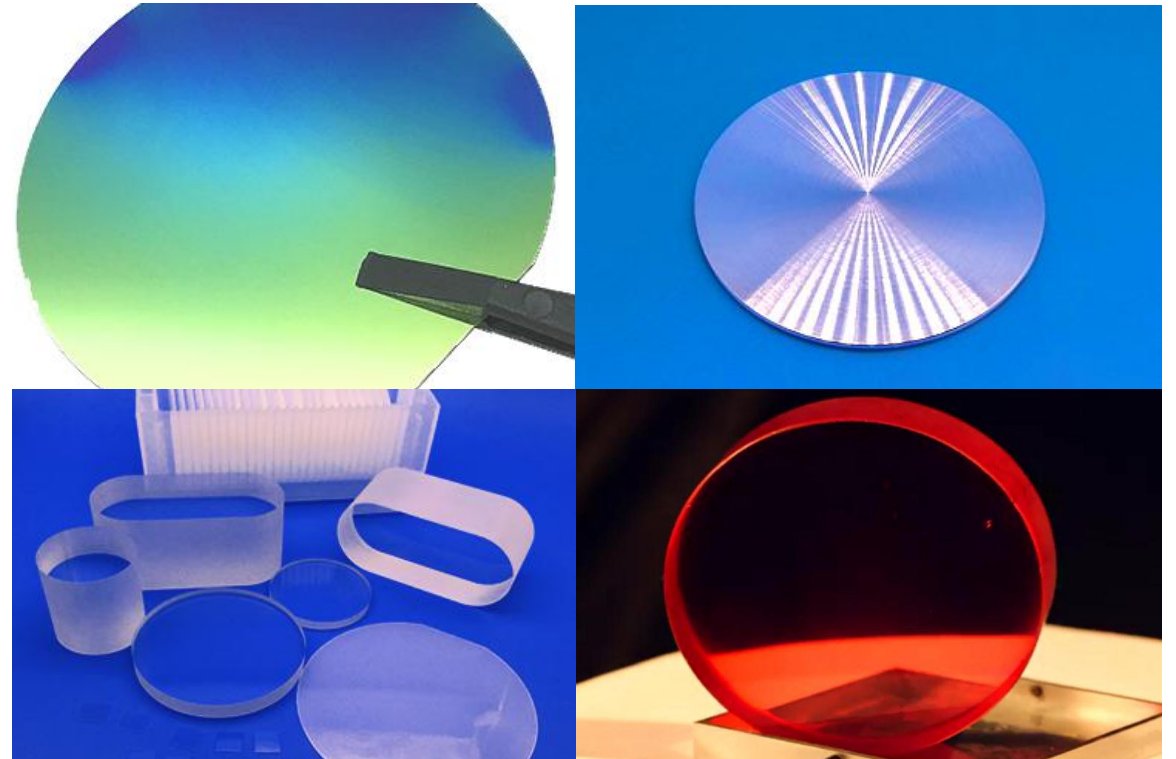




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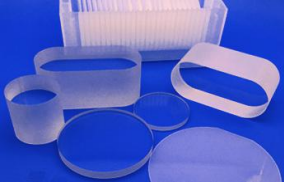
# Substrates Brief

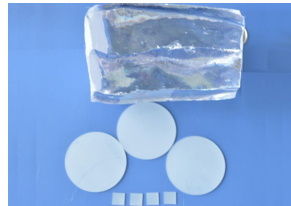




# Substrates


## From Ingot to finished wafers

| ① Crystal Substrates  | Semiconductor |                                  |                                   |                                | HT Superconducting           |                                  |                      | Magnetic and Ferroelectric   |                    |                       |                       |
|---|---------------|----------------------------------|-----------------------------------|--------------------------------|------------------------------|----------------------------------|----------------------|------------------------------|--------------------|-----------------------|-----------------------|
|  | MgO           | MgAl <sub>2</sub> O <sub>4</sub> | MgAl <sub>6</sub> O <sub>10</sub> | LiAlO <sub>2</sub>             | MgO                          | LaAlO <sub>3</sub>               | LaSrAlO <sub>4</sub> | MgO                          | SrTiO <sub>3</sub> | Fe:SrTiO <sub>3</sub> | Nd:SrTiO <sub>3</sub> |
|   | ZnO           | GaN                              | SiC                               | Al <sub>2</sub> O <sub>3</sub> | KTaO <sub>3</sub>            | MgAl <sub>2</sub> O <sub>4</sub> | NdGaO <sub>3</sub>   | LaAlO <sub>3</sub>           | TGG                | TiO <sub>2</sub>      | GGG                   |
|   | Ge            | Si                               | GaAs                              | InP                            | YSZ                          | SrTiO <sub>3</sub>               | YAlO <sub>3</sub>    | (La,Sr)(Al,Ta)O <sub>3</sub> |                    |                       |                       |
|   | InAs          | InSb                             |                                   |                                | (La,Sr)(Al,Ta)O <sub>3</sub> |                                  |                      |                              |                    |                       |                       |



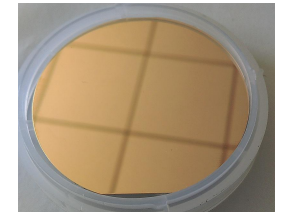
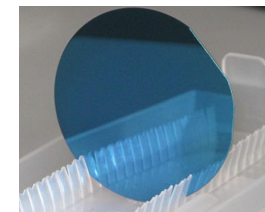
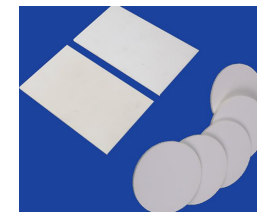
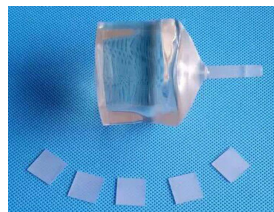
| Halide Crystal |     |     |
|----------------|-----|-----|
| NaCl           | KCl | KBr |



| ② Special Substrates  | Ceramic/Glass                  |     |                                |     | Coated Wafers              |          |                      |
|---|--------------------------------|-----|--------------------------------|-----|----------------------------|----------|----------------------|
|  | Al <sub>2</sub> O <sub>3</sub> | AlN | Si <sub>3</sub> N <sub>4</sub> | YSZ | Pt/Ti/SiO <sub>2</sub> /Si | Au/Cr/Si | SiO <sub>2</sub> /Si |
|   | ITO                            | FTO | AZO                            |     |                            |          |                      |

be customised upon request

[more on website >>>](#)





# Sputtering Targets

| Metal Targets   | Alloy Targets  | Ceramic Targets   | Monocrystal Targets   |
|---|--|---|---|
|  |  |  |  |

[more >>>](#)

# Powders, Sputtering Sources

be customised upon request

| Metal Oxide   | Sulfides  | Fluorides  | Nitrides                         | Metals                            |
|---|-----------|--|----------------------------------|-----------------------------------|
| $\text{Al}_2\text{O}_3$ , $\text{CeO}_2$ , $\text{Cr}_2\text{O}_3$ ,<br>$\text{HfO}_2$ , $\text{In}_2\text{O}_3$ , ITO,<br>MgO, $\text{La}_2\text{Ti}_2\text{O}_7$ ,<br>$\text{Nb}_2\text{O}_5$ , $\text{Ta}_2\text{O}_5$ ... | ZnS, ZnSe | $\text{AlF}_3$ , $\text{BaF}_2$ , $\text{CeF}_3$ ,<br>$\text{LaF}_3$ , LiF, $\text{MgF}_2$ , $\text{YF}_3$ ,<br>$\text{Na}_3\text{AlF}_6$ , $\text{YbF}_3$ | AlN, BN, $\text{Si}_3\text{N}_4$ | Al, Cr, Cu, Ge, Ni, Si,<br>Sn, Ti |

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