

“Create new value continuously”

One of our mottos is to create new value in developing our technologies.

And at the same time, we are focusing on development and sales of glass made without harmful materials and that is one of our business targets. Today, we would like to introduce longer IR wavelengths pass glass without lead material. And we would like to deliver solutions to customers in terms of glass melting, precise processing, coating, and so on.



Under development

【Lead free wider IR pass glass】

Quality

- High transmittance on NIR/MIR wavelengths which even crystal may not be able to do
- Shape stability with low expansion coefficient
- Without harmful materials

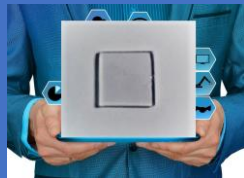
Cost

- Own melting facilities, own forming process
- To reduce production cost with reasonable raw materials

Delivery

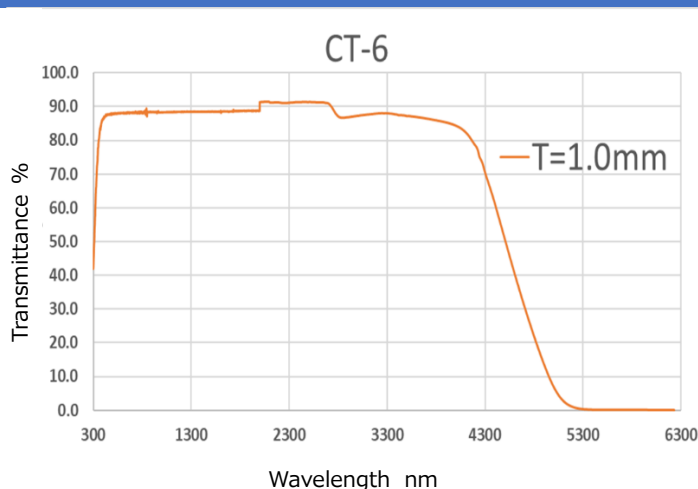
- Own melting facilities, own forming process
- Small lots with shortened terms
- Flexibility on delivery term

【CT-6】



Applications :

NDIR (Non-Dispersive Infrared) Sensor,
Night vision, etc



Product name	CT-6
Refractive index (nD)	1.657
Expansion coefficient α [10 ⁻⁷ /°C]	49 (100/300)
Transition point Tg [°C]	895
Deformation point At[°C]	956
Softening point Ts [°C]	—
Knoop hardness Hk	— (100g/15sec)
Density [g/cm ³]	3.5
60°C/90% RH (non-coated)	—
Optical property (non-coated)	1.0mm thickness
1000nm	88.4%
2000nm	88.8%
3000nm	87.3%
4000nm	84.4%
5000nm	7.0%
Composition type	SiO ₂ -Al ₂ O ₃ -Y ₂ O ₃
RoHS regulated substances (Pb,Hg,Cr(VI),Cd)	Not contained
Halogenated substances	Not contained