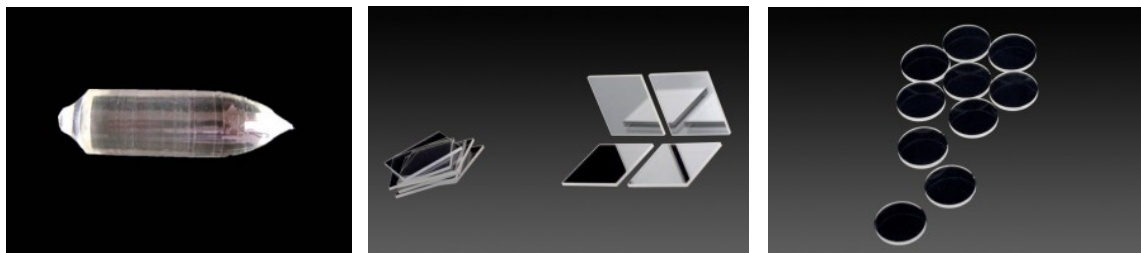


# YAP(Ce) Scintillator

## General properties of YAP(Ce) scintillator

Melting point(k)	2148
Density (g/cm <sup>3</sup> )	5.40
Cleavage plane	no
Wavelength of emission Max(nm)	370
Primary decay time (ns)	28
Light output (Photons/MeV)	15,000
Hardness(Mho)	8.50
hygroscopic	no
Refractive index	1.95



### Basic information of YAP(Ce) scintillator:

YAP(Ce) scintillator crystal has fast decay time(28 ns) and relatively high light yield(40% of NaI:TI), the emission peak is 360-380 nm, which can be effectively matched with most of the current read out system. YAP(Ce) can be machining precisely, used for gamma and x-ray counting, electron microscopy, electron and X-ray imaging screens.

Growth method: Czochralski

Formula:  $YAlO_3$ (cerium content: 0.5 at%)

Maximum dimension:  $\varnothing$  50 mm x 160 mm

Available items: Single crystal

Regular dimensions: 25 x 25 x 0.5/1.0 mm, 10 x 10 x 0.5/1.0 mm, 5 x 5 x 0.5/1.0 mm,  $\varnothing$  25 x 0.5/1.0 mm,  $\varnothing$  10 x 0.5/1.0 mm, special sizes are available upon request

Aluminum coating: Yes

Indium Tin Oxide(ITO) coating: Yes

문의처

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