

闪烁玻璃 Scintillating Glass

产品介绍 Product Descriptions

闪烁玻璃是一种能将高能射线 (X/γ射线) 或粒子 (质子、中子等) 吸收并高效转换成可见光的玻璃材料。具有物化性能稳定、高密度、生产周期短、可大尺寸制备等特点。其发光波长在410 nm, 可以与光电倍增管和硅光二极管高效耦合。主要应用于高能物理和核物理大科学装置中实现对γ射线和其它中性强子的探测。

Scintillating glass can absorb high-energy rays (X/γ rays) or particles (protons, neutrons, etc.) and can efficiently convert them into visible light. It has stable physicochemical properties, high density, short production period, and can be produced in large sizes. With photoluminescence emission wavelength at 410 nm, it can efficiently couple with photomultiplier tubes and silicon photodiodes. It is mainly used in large scientific devices for high-energy physics and nuclear physics to detect rays and other neutral hadrons.

技术优势 Technical Advantages

- ◆ 大尺寸制备 (Large-size production)
- ◆ 生产周期短 (Short production period)
- ◆ 高密度 (High density)
- ◆ 不潮解 (Non-deliquescent).

应用场景 Applications

强子量能器、工业核辐射剂量探测。

Hadron calorimeter and industrial nuclear radiation dosimetry detection.

技术指标 Specifications

Size	~40×40 mm ² (Customizable)
Thickness	~10 mm (Customizable)
Density	6g/cm ³
Light yield	1000-2000 ph/MeV
Transmittance	~75%
Scintillating decay time	150-400 ns
Emission peak	410 nm (Customizable)

Contact: LI Weichang

Tel: +86 19921268159

E-mail: liweichang@siom.ac.cn

