



YAG / LuAG

PURITY - PSD CONTROL - CRYSTALLINITY

Characteristics

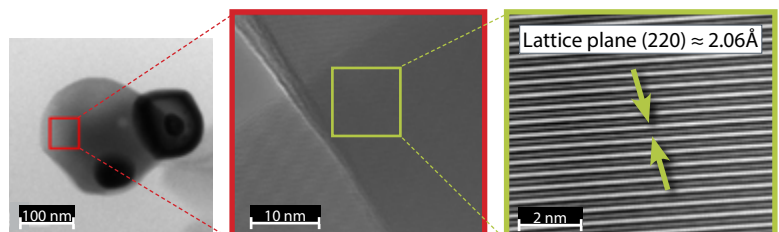
Standard Phosphor products (Typical values)		Undoped YAG	YAG:Ce	LuAG:Ce
Ce content (at%)		0	≤ 3.3	
Specific Surface Area (m ² /g) <i>BET</i>		7		
Particle Size Distribution (μm)	d ₁₀	0.08		
	d ₅₀	0.15		
	d ₉₀	0.28		
Elemental Analysis (ppm) <i>ICP</i>	Na	≤ 10		
	K	≤ 10		
	Ca	≤ 10		
	Mg	≤ 10		
	Fe	≤ 10		
	Cr	≤ 2		
	Si	≤ 100		
	S	≤ 300		

> Phosphors product range **characteristics**:

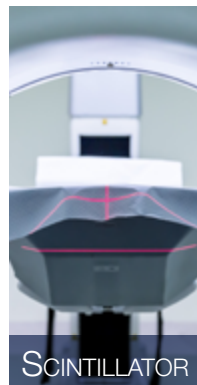
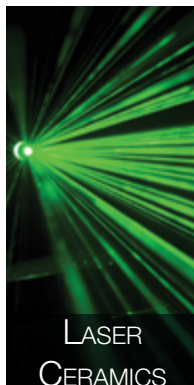
- High chemical purity
- Controlled in particle size and size distribution [high sintering reactivity without any sintering aid]
- Excellent crystallographic phase purity
- High crystallinity
- Homogeneous distribution of the activators in the garnet lattice.

*Baikowski's YAGs and LuAGs are characterized by their **high crystallinity**, **chemical purity**, control of submicronic size & distribution, and **optimized distribution of activators** within the lattice allowing **excellent optical properties** (quantum yield...).*

> Nano-scale crystallinity of our YAG



Applications



Baikowski® can tailor YAG and LuAG products to meet customer requirements with a variety of dopants & substituents:

- Dopants: Cr, Er, Yb, Nd...
- Substituents: Gd, Ga...



Baikowski

With great powder comes great responsibility



Baikowski® 

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