# AG / LUAG

### **Characteristics**

Standard Phosphor products (Typical values)		Undoped YAG	YAG:Ce	LuAG:Ce
Ce content (at%)		0	≤ 3.3	
Specific Surface Area (m²/g) BET		7		
Particle Size Distribution (µm)	d <sub>10</sub>	0.08		
	d <sub>50</sub>	0.15		
	d <sub>90</sub>	0.28		
Elemental Analysis (ppm) <i>ICP</i>	Na	≤ 10		
	К	≤ 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 crys**tallinity, 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<sup>®</sup> can tailor YAG and LuAG products to meet customer requirements with a variety of dopants & substituants:

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

### Your solution partner for fine minerals



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