

PHOSPHORS YAG/LuAG

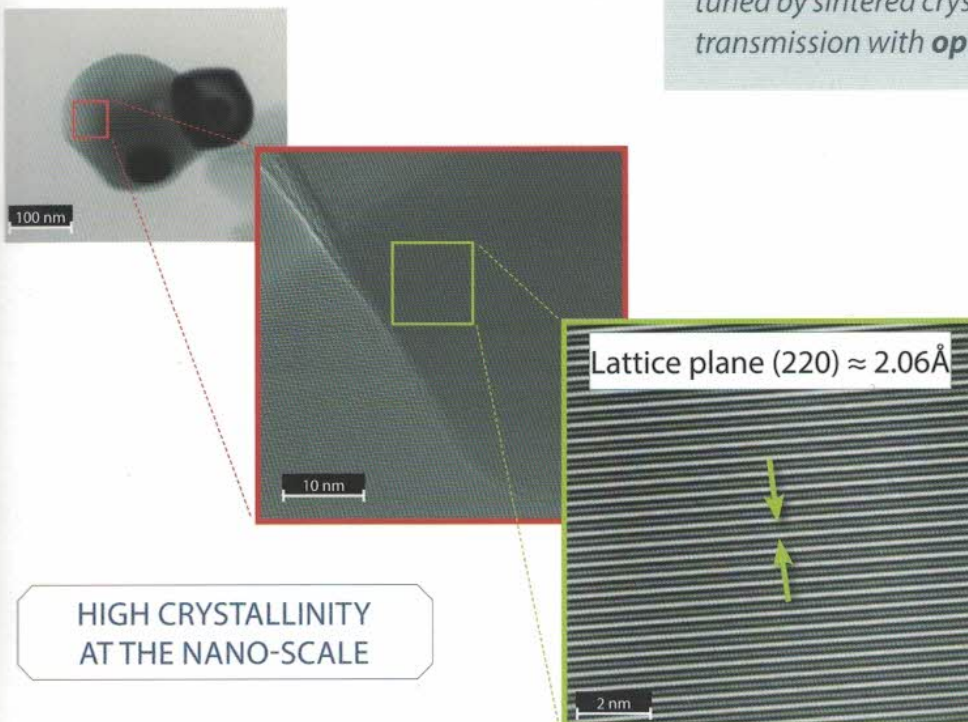
■ PHOSPHORS PRODUCTS RANGE

Standard Phosphors products (Typical values)	YAG:Ce	LuAG:Ce
Dopant content (%at)	0.1 - 3.3	
Specific Surface Area (m ² /g) BET	4 - 8	
Particle Size Distribution (µm) <i>Laser diffraction Horiba LA950</i>	d ₁₀	0.07 - 0.10
	d ₅₀	0.13 - 0.17
	d ₁₀₀	0.22 - 0.30
Chemical Composition (ppm)	Na	≤ 15
	K	≤ 10
	Ca	≤ 20
	Mg	≤ 10
	Fe	≤ 15
	Cr	≤ 2
	Si	≤ 40
Examples of applications	High Power LEDs Lasers, LEDs for TV	

> Phosphors products range **characteristics**:

- High chemical purity
- Controlled in particle size and size distribution [high sintering reactivity without any sintering aid]
- High phase purity
- High crystallinity
- Homogeneous distribution of the activators (alone or mixture) in the garnet lattice with accurate control of cation substitution.

*Baikowski's YAGs and LuAGs are characterized by their **high crystallinity, chemical purity, submicronic control of size & distribution, and optimized dissemination of activators** within the lattice allowing maximum control of ceramic porosity finely tuned by sintered crystallite growth, engineered in-line transmission with **optimized quantum efficiency**.*



HIGH CRYSTALLINITY
AT THE NANO-SCALE



Baikowski® can formulate YAGs and LuAGs products on customer's requirements with any kind of dopant:

- Transparent ceramics: Nd, Cr, Er, Yb...
- Ceramics light converters & phosphors for light conversion: Ce, Pr, Gd...