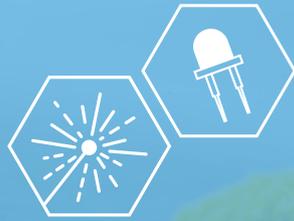


Special Oxides



PRODUCT CODE

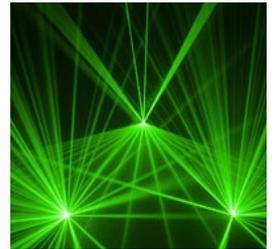
YAG

Through a proprietary synthesis route, **Baikowski** produces industrial rare earth aluminum garnet powders (rare earth and transition metal doped YAG, LuAG) with highly controlled properties:

- **Guaranteed** chemical and crystallographic phase purity: 4N alumina and 4N rare earths for high control of YAG crystallographic phase purity
- **Homogeneous & submicronic** crystallites sizes: d50 ~200nm
- **Optimized** ceramic properties:
 - Low temperature sintering 97% theoretical density at 1600°C/1h
 - Homogeneous microstructure with small crystallites 700 nm after 1600°C/1h
 - Tightly controlled porosity for additives, without impact on crystalline growth
- **Optimized** incorporation (distribution and location) of any activator (alone or mixture) leading to highly efficient phosphorescent materials
- **Fine tuning** of in-line transmission (ILT), playing with sintered alumina crystallites size.
- Intimate blending of YAG with specifically designed Al_2O_3
- Rare earth aluminum garnet available as **de-agglomerated** powders, hi-concentration slips or **ready to press** granules, suitable for **all ceramic manufacturing** processes.

These advanced materials turned into **innovative ceramic converters** at industrial scale provide improvements in newest LED generation.

Main applications



Laser Ceramics



Phosphors coatings



Ceramics converters for LED

Typical values are given by Baikowski as an indication only. Such values are not contractual.

CONTACT NOW: sales@baikowski.com

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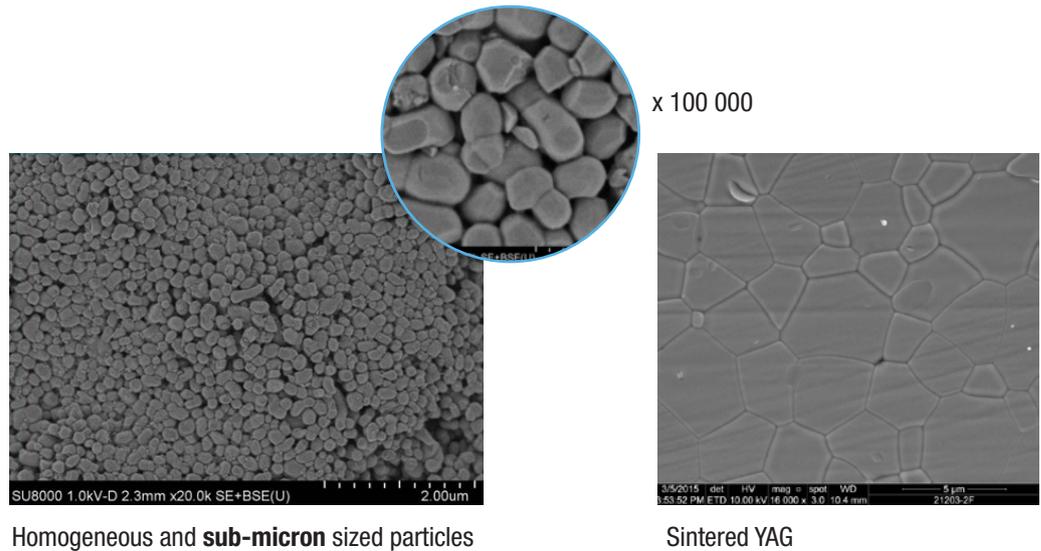


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MATERIAL PROPERTIES FOR CERAMICS



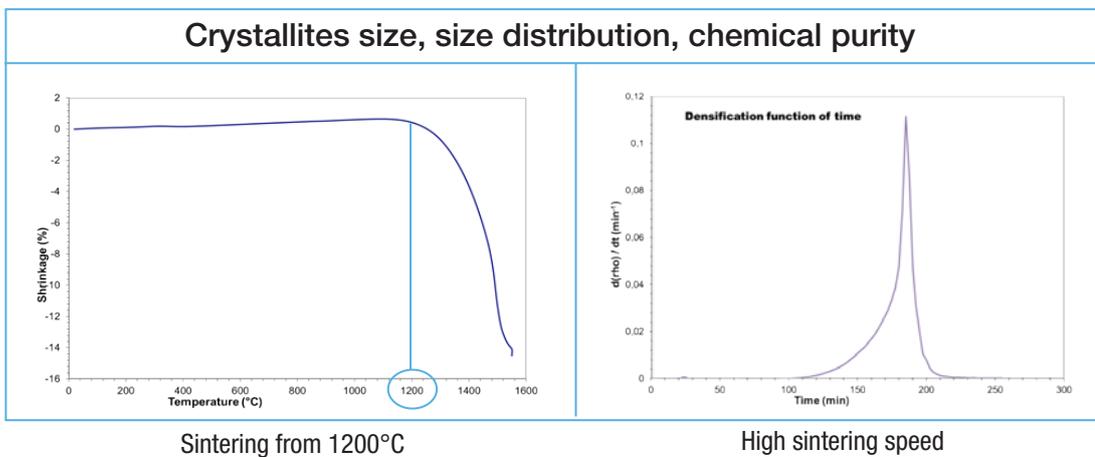
TYPICAL VALUES

Formula	$Y_3Al_5O_{12}$	
Particle Size Distribution (μm) d10		0.08 ± 0.01
(by Horiba) d50		0.15 ± 0.04
d90		0.26 ± 0.08

CHEMICAL ANALYSIS

High phase purity	(ppm/YAG)		
Na <10	Fe <10	Ca <10	
K <10	Si <50	Cu+Cr+Zn <5	

PROCESSABILITY



Ready to press granules suitable for all ceramic manufacturing processes

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