

INTEMATIX LED PHOSPHORS

Yellow Garnet (NYAG) Product Family



Intematix Yellow Garnets (NYAG) are among the highest efficiency phosphors in the industry. The high brightness, high thermal stability and high reliability make them a standard in phosphor-converted LEDs. These features make NYAG ideal for every application from mobile devices to general lighting. Intematix makes garnets in different particle size ranges so you can choose the particle size that best fits your deposition process and packaging requirements.

Features

- High efficiency, >95%
- Uniform particle morphology
- Choice of particle sizes, 6-14 μ m
- Resistant to heat and humidity

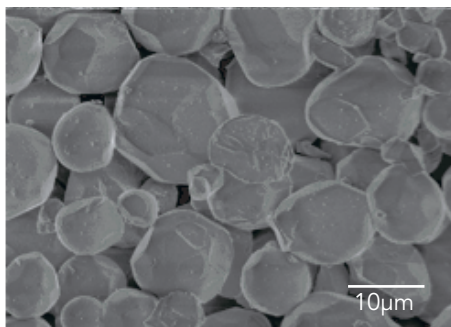
Benefits

- High lumens/watt cool white
- High yield LED package manufacturing
- Application design freedom
- Proven solution for general lighting

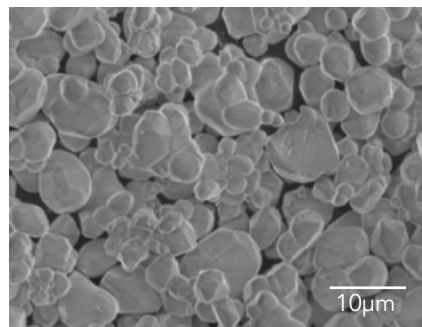
Applications

- Mobile display –high brightness
- General lighting
 - Replacement lamps
 - Commercial/industrial
 - Street lighting
- Automotive lighting

Superior Particle Morphology



Large particle, 13 μ m



Small particle, 8 μ m

Intematix Garnet Phosphor Product Line

Large particle NYAGs for high-power LED packages

Product	Peak Wavelength	Color Point		Particle Size
	λ_p (nm)	CIE _x	CIE _y	D50V (μ m)
NYAG 4156-L	545	0.400	0.560	11
NYAG 4355-L	551	0.426	0.548	13
NYAG 4354-L	554	0.433	0.543	13
NYAG 4454-L	558	0.444	0.536	13
NYAG 4454-EL	560	0.448	0.533	14
NYAG 4653-L	562	0.458	0.526	12
NYAG 4752-L	564	0.465	0.521	13

Small particle NYAGs for small packages or conformal deposition

NYAG 4156-S	545	0.403	0.558	8
NYAG 4355-S	551	0.426	0.548	10
NYAG 4355-ES	551	0.425	0.548	6
NYAG 4454-S	558	0.444	0.536	8

For more information or full product details please contact phosphor@Intematix.com or your sales representative.

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