

INTEMATIX LED PHOSPHORS

Green & Yellow Aluminate (GAL) Product Family



Intematix Aluminates (GALs) are versatile materials. High thermal stability and resistance to moisture make them the perfect phosphor for high-power LEDs. Plus, the breadth of the GAL emission peak enables the highest CRI along with high efficacy. Intematix also makes aluminates in different particle size ranges so you can choose the particle size that best fits your deposition and packaging requirements.

Features

- Broad emission peak, 120nm FWHM
- Choice of yellow & green wavelengths, 515-560nm
- Highly resistant to heat & humidity
- High thermal stability; 90% lm at 200°C

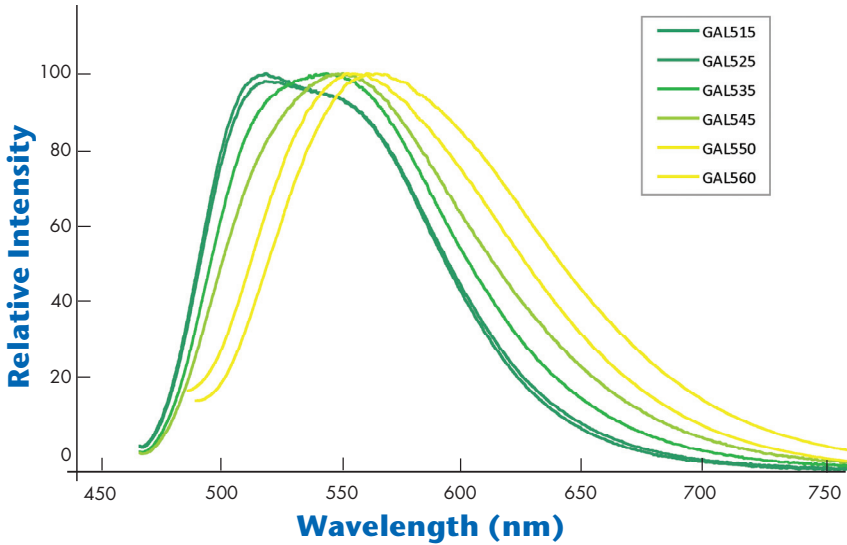
Benefits

- Up to 98 CRI in blends with red phosphors
- Enables cool and warm whites
- Excellent for long life products
- High- value substitute for YAG, silicate
- No chromaticity shift in high power LEDs

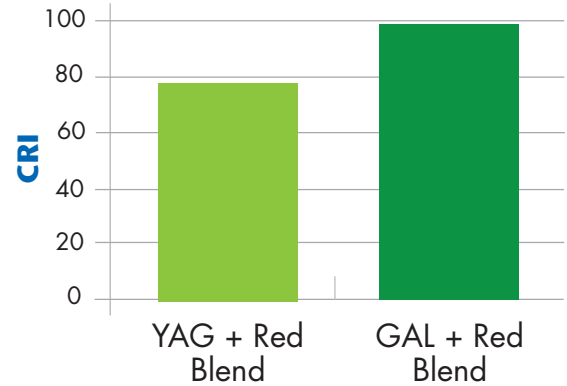
Applications

- General Lighting –warm and cool white
 - LED retrofit light bulbs
 - Architectural
 - Retail display
 - Commercial/industrial
 - Entertainment
 - Automotive interior lighting
- Display Backlight –wide color gamut
 - TV and monitor
 - Tablet PC & mobile display

Extensive Spectral Distribution



Highest Light Quality



Intematix Aluminate Phosphor Product Line

Product	Peak Wavelength	Color Point		Particle Size
	λ_p (nm)	CI _{Ey}	CI _{Ey}	D50V (μm)
GAL 515	515	0.327	0.578	13
GAL 520	520	0.334	0.577	13
GAL 525	525	0.340	0.576	13
GAL 530-L	530	0.347	0.573	13
GAL 535	534	0.354	0.569	13
GAL 540	540	0.372	0.564	11
GAL 545-L	543	0.392	0.556	14
GAL 545	545	0.395	0.555	10
GAL 550	550	0.415	0.549	13
GAL 555	555	0.431	0.540	13
GAL 560	560	0.447	0.532	13

Small particle GALs for conformal coating applications.

GAL 537	537	0.366	0.568	7
GAL 530-S	530	0.354	0.573	5.5
GAL 545-S	545	0.393	0.557	7

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

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