

GAL (ALUMINATE) PRODUCT FAMILY



Intematix green and yellow GALs (Aluminates) are versatile materials. Green GAL offers higher thermal stability than YAG and robust reliability, making it the perfect phosphor for high-power LEDs. Also, the breadth of the emission helps to fill the blue-green gap, enabling the highest CRI combined with great efficacy. For a bright cool white, yellow GAL shines in both illumination and display applications. Intematix makes Aluminates in different particle size ranges so you can choose the size that best fits your deposition process and packaging requirements.

Features

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

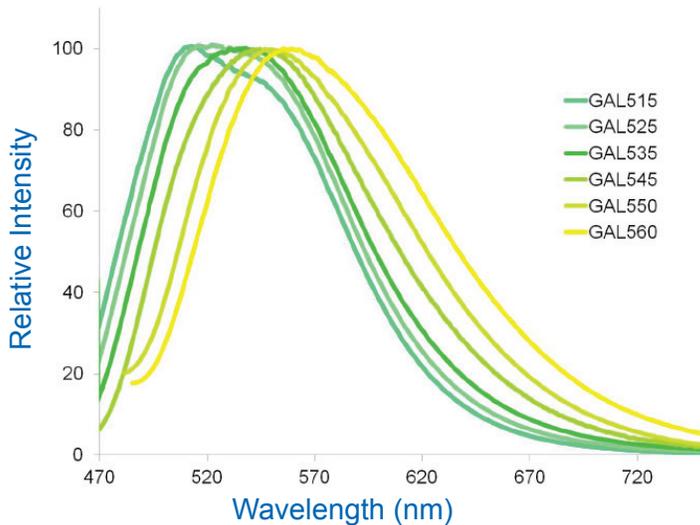
Benefits

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

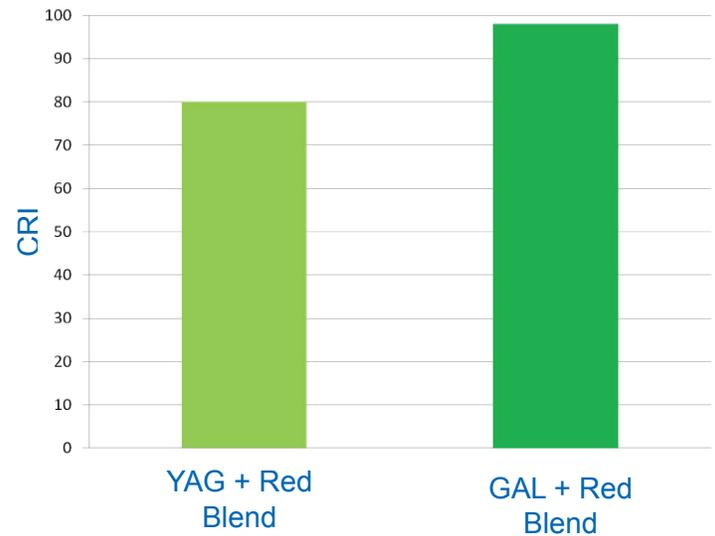
Applications

- General Lighting - warm and cool whites
 - LED retrofit lamps
 - Architectural
 - Retail display
 - Commercial / industrial
 - Entertainment
 - Automotive interior lighting
- Display Backlighting - high brightness, 550-560nm
 - TV and monitor
 - Tablet PC and mobile display

Extensive Spectral Distribution



Highest Light Quality



Intematix GAL Phosphor Product Line Green GALs for high CRI Lighting

Product	Peak Wavelength	Color Point		Particle Size
	λ_p (nm)	CIE _x	CIE _y	D50V (μm)
GAL515-01-B12	516	0.327	0.578	12
GAL520-01-B12	520	0.333	0.577	12
GAL525-01-B12	525	0.338	0.576	12
GAL530-L	530	0.347	0.572	13.5
GAL535-02-15	534	0.354	0.571	15
GAL535-L	534	0.354	0.570	14
GAL540-02-14	540	0.371	0.565	14.5
GAL540	540	0.372	0.564	11
GAL545-L	545	0.394	0.556	14
GAL545	545	0.395	0.555	10

Small particle GALs for conformal coating applications

GAL530-S	530	0.354	0.573	5.5
GAL535-01-B08	534	0.354	0.570	8
GAL537	537	0.366	0.568	7.5
GAL545-S	545	0.393	0.557	7

Yellow GALs for high brightness lighting and displays

GAL550-02-13	550	0.415	0.549	14
GAL555-02-13	555	0.431	0.540	14
GAL560-02-13	559	0.445	0.532	13

INTEMATIX

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