

INTEMATIX LED PHOSPHORS

Red Nitride Product Family



Red makes everything more appealing. From LED backlight units to general lighting, the addition of the right red to white phosphor blends makes colors appear richer, vibrant and more natural. Intematix offers an extensive portfolio of red nitride materials, ranging from the brighter short wavelengths to deep reds, which offer the utmost in color rendering and R9 values for professional grade color reproduction.

Features

- Wide spectral range, 620-670nm
- High efficiency
- Highly resistant to heat & humidity
- High thermal stability; 90% lm at 125°C

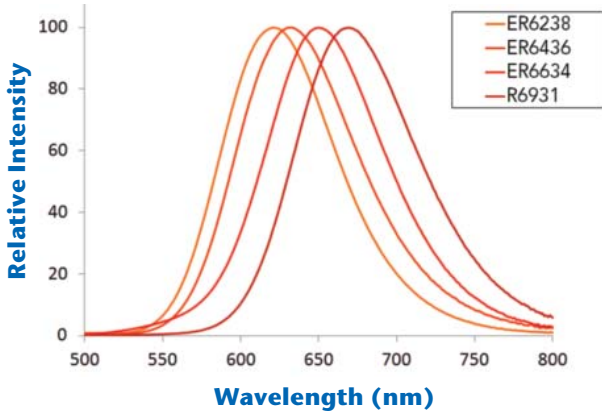
Benefits

- Enables ultra high CRI, up to 98
- Design freedom supporting a broad array of applications
- Energy efficient warm white LEDs
- Enables wide color gamut

Applications

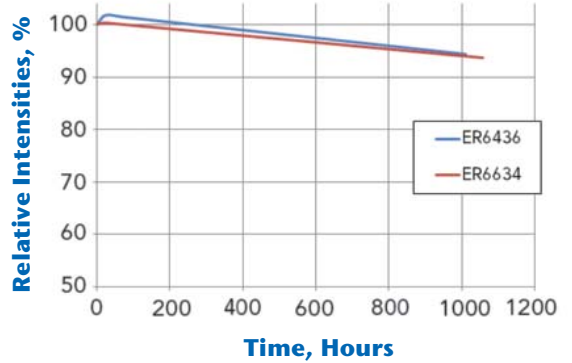
- General Lighting –warm whites
 - LED retrofit light bulbs
 - Architectural
 - Retail display
 - Entertainment
- Display Backlighting –wide color gamut
 - TV and monitor
- Special Applications
 - Green alternative for horticultural lighting

Extensive Spectral Distribution



Reliability

(85°C/85% Relative Humidity)
1000 hr Operation



Intematix Nitride Phosphor Product Line

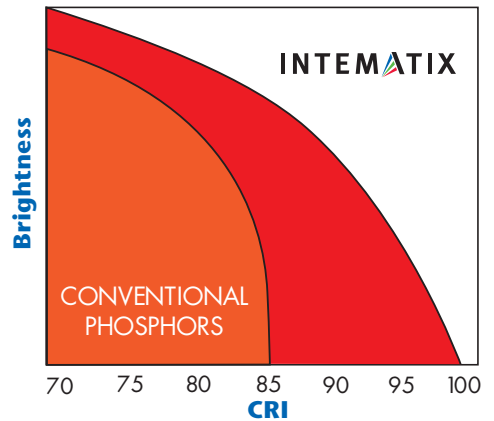
Enhanced Reds – For higher reliability and brightness

Product	Peak Wavelength	Color Point	
	λ_p (nm)	CIE _x	CIE _y
ER6238	620	0.618	0.382
ER6436	630	0.634	0.366
ER6535	640	0.643	0.356
ER6634	650	0.670	0.330

Long Wavelength Reds – For highest CRI and R9 values

R6733	655	0.666	0.333
R6832	660	0.682	0.345
R6931	670	0.694	0.305

Quality of Light Comparison



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

Intematix Corporate Headquarters

46430 Fremont Boulevard • Fremont, CA 94538

Tel: +1.510.933.3300 • Fax: +1.510.668.0793

www.intematix.com