

SILICATE PRODUCT FAMILY



Intematix offers the widest range of Silicates from blue-green to orange and everything in between. Intematix Silicates are known for their high efficiency, making them the ideal phosphor for applications where dazzling brightness is required. Our Silicates have a narrow emission peak, meaning more of the emitted light passes through the color filter in LCD displays. Both standard and enhanced brightness Silicates are available to meet the unique needs of your applications.

Features

- High efficiency, >96%
- Wide choice of colors:
green, yellow, orange, 507-600nm
- Narrow emission peak, 70-82nm FWHM
- Broad excitation range, UV-Violet-Blue

Benefits

- Offers complete spectrum solution
- Ideal for displays, high light throughput
- Highest lumens/watt for lighting
- Enables alternative approach to high CRI cool white

Applications

- Mobile Display - high brightness
 - Smartphone
 - Tablet PC
 - Laptop
 - GPS
- Portable and Lower Power Lighting
 - Flashlight
 - Task Lamp
 - Lantern

Intematix Silicate Phosphor Product Line

Green - Standard and Enhanced Brightness

Product	Peak Wavelength	Color Point		Particle Size
	λ_p (nm)	CIE _x	CIE _y	D50V (μm)
G1758	507	0.175	0.574	15.5
G2060	510	0.198	0.605	15.5
G2262	517	0.226	0.620	15.5
EG2762	525	0.286	0.627	15.5
G2762	525	0.280	0.626	15
G3261	529	0.319	0.615	15
EG3161	530	0.319	0.613	15.5
G3261	530	0.307	0.617	15
EG3560	535	0.345	0.602	15.5
EG3759	539	0.369	0.587	15.5

Yellow - Standard and Enhanced Brightness

Product	Peak Wavelength	Color Point		Particle Size
	λ_p (nm)	CIE _x	CIE _y	D50V (μm)
Y3957	547	0.394	0.568	15.5
EY4156	550	0.402	0.563	15.5
Y4156	550	0.402	0.563	15
EY4254	558	0.423	0.550	15.5
Y4254	558	0.424	0.547	15
EY4453	565	0.442	0.534	15.5
Y4453	565	0.442	0.533	15
EY4651	569	0.459	0.519	15.5
Y4651	570	0.459	0.519	15
EY4750	574	0.470	0.510	15.5
Y4750	575	0.470	0.503	15

Yellow - Low Cohesion

Y4156-02-16	550	0.402	0.563	16
Y4254-02-16	558	0.424	0.547	16
Y4453-02-A16	565	0.442	0.533	16

Orange - Standard

Product	Peak Wavelength	Color Point		Particle Size
	λ_p (nm)	CIE _x	CIE _y	D50V (μm)
O5446	586	0.544	0.449	15
O5544	590	0.553	0.440	15
O5742	600	0.576	0.417	15

Orange - Low Cohesion

O5446	586	0.544	0.449	16.5
O5544	590	0.553	0.440	15.5
O5742	600	0.576	0.417	16.5

Yellow - Ultra Bright

Y4156-03-20	550	0.404	0.563	20
Y4254-03-20	558	0.424	0.547	20
Y4453-03-20	563	0.443	0.533	20
Y4651-03-20	568	0.459	0.520	20

