



The Technology behind our Glow materials

Advanced Visibility's Glow Technology has been developed over years of technical research and advancements allowing development of Strontium Nitrate based pigment along with other elements to be manipulated to achieve a performance of maximum glow intensity, extended decay time, rapid charging and laundry performance.

The specified formulated pigments have a high capacity for absorbing and storing light energy by allowing atoms in the pigments to absorb photon energy from an ultra violet light source. The light source can be natural daylight or artificial light. These electrons act like little batteries effectively storing light energy.

Once light has diminished or is absent the stored energy is slowly released as light. This light is called "afterglow."

Chart below illustrates charge time to achieve 8 hours of afterglow however, mere seconds of light exposure can give over an hour of visible light.

The afterglow can be seen in reduced light conditions such as a dimly lit warehouse, unlit roadway, shadows of large machinery, abandoned buildings, smoky conditions etc.

Afterglow can be seen in complete dark conditions such as power outages, unlit roads, railroad tracks, tunnels, manholes, working outdoors etc.

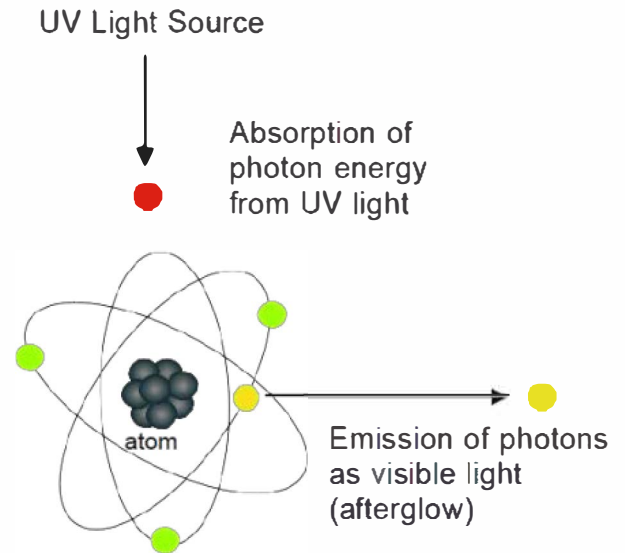
The initial afterglow when measured after 2 minutes in millicandelas per square metre (mcd/m²) using a photometer is 1800+ (mcd/m²) and extinction time for afterglow to diminish to (0.32mcd/m²) or about 100 times limit of human perception is 480 minutes. (8 hours)

Light Source	Light Intensity (Lux)	Charging Time
Clear sunlight	>50,000	5
Cloudy sunlight	3,000-50,000	5
Dusk	1,000	8
Office Fluorescent lights	500	10

For More information please contact

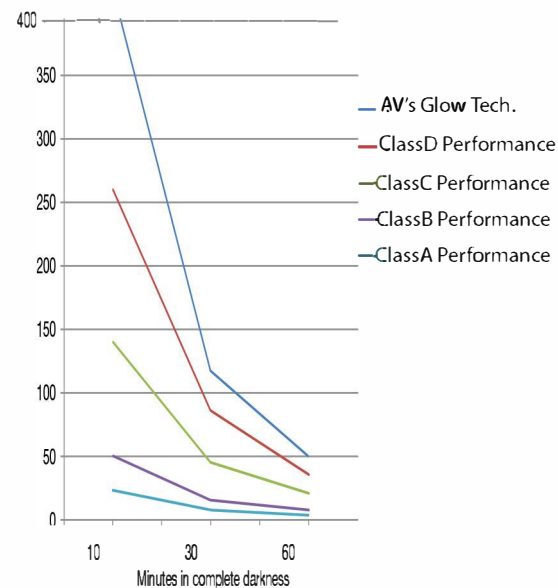
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Electron Excitation



Afterglow Measurement

Tested according to ISO 17398:2004
"Safety Colors and Safety Sign Clause 7.11
Light Measured in MilliCandelas (mcd/m²)



3rd Party Test Results Showing Glow Intensity

	10	30	60
AV's Glow Technology	416	117	50
Class D performance	260	85	35
Class C Performance	140	45	20
Class B Performance	50	15	7
Class A Performance	23	7	3