

# Technical Information

Long Afterglow Pigment

## Typical Chemical Properties

**Trade Name:** N50001-D  
**Chemical Formula:** ZnS:Cu,Mn,Co  
**Insoluble in:** Water, Organic Solvents  
**Moisture:** <0.2%  
**Decomposition by:** Strong Acids  
**pH (Aqueous Solution):** Approximately 10

## Typical Physical Properties

**Appearance:** Crystalline Yellowish White Fine Powder  
**Specific Gravity:** 4.08 gr/cm<sup>3</sup>  
**Average Particle Size:** 25± 3 μm (as Blaine Air Transmission Apparatus)

## Typical Phosphorescent Properties

**Phosphorescence Colour:** Yellowish Orange

### Phosphorescence Values in mcd/m<sup>2</sup>

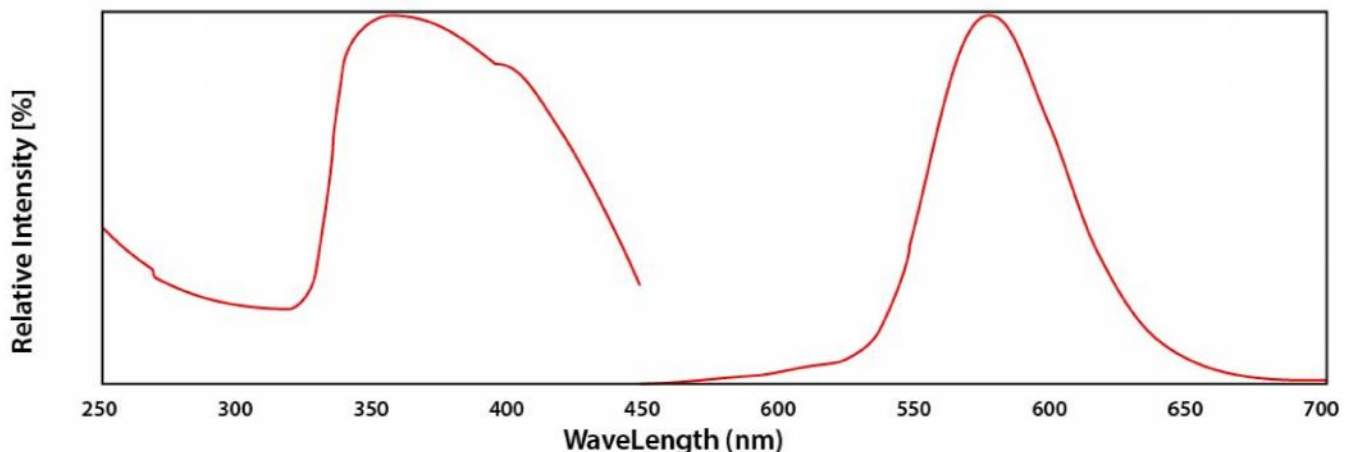
|       |       |       |       |                        |
|-------|-------|-------|-------|------------------------|
| 1 min | 10min | 30min | 60min | 0.32mcd/m <sup>2</sup> |
| 205   | 23.5  | 7.4   | 3.4   | 540min                 |

Tested according to DIN 67510 (part1)

## Typical Excitation and Emission Spectrum

**Excitation:** UV light, Day light, Fluorescent lamp

**Emission Peak Wavelength:** 580nm (±3)



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