



# JOLIN CORPORATION

大连九霖科技发展有限公司

Tel: +86-411-82479399/ 82479385/ 82479386

Fax: +86-411-82479390

<http://jolingroup.com>

Email: [jolin@jolingroup.com](mailto:jolin@jolingroup.com)

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## Item

Product Description Photoluminescent pigment  
Model YG-405-RH

## Application Scopes

Glass, ceramic, tile, etc.

## Typical chemical properties

Composition Strontium Aluminate doped with Europium Dysprosium oxides.  
Insoluble in organic solvents, water  
Decomposition by Strong acids, strong alkalines  
Fastness to heat -40~850°C

## Typical physical properties

Appearance Yellowish crystal powder  
Specific gravity 3.6g/cm<sup>3</sup>  
Bulk Density 1.21g/cm<sup>3</sup>  
Average Particle Size: 400~800um 100% passing 200mesh.

## Typical luminescent properties

Excitation all visible light and UV light (200~450nm better)  
Glow Color Yellow green (Emitting light Wavelength Peak: 520±2nm)  
Afterglow Intensity after 10min mcd/m<sup>2</sup>  
60min mcd/m<sup>2</sup>  
600min mcd/m<sup>2</sup>

Afterglow intensity(to 0.32mcd/m<sup>2</sup>): >14000min under norm DIN67 510

## Typical luminance data

| Time               | 10"   | 1'   | 2'   | 3'   | 4'   | 5'   | 10'  | 15' | 20' | 30' | 40' | 50' | 60' | 90' | 120' | 180' | 300' | 600' |
|--------------------|-------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| mcd/m <sup>2</sup> | ##### | 8764 | 5319 | 3843 | 3009 | 2475 | 1268 | 860 | 626 | 390 | 275 | 209 | 166 | 104 | 73.1 | 44.8 | 24.1 | 10.7 |

|                            |                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Luminance Test Methods     | <p>Under Norm DIN67510-1:2009</p> <p>Put sample in opaque container for 24hrs, Temperature: 23±2°C, expose the sample under 1000lx-D65 light source for 5', then turn off the light and test the sample's afterglow luminance at 2', 10', 30', and 60'.</p>                      |
| Luminance Test Instruments | <ul style="list-style-type: none"> <li>○ Charging Light Source<br/>D65 Xenon Lamp</li> <li>○ Charging Lamp Model<br/>Toshiba FL20S.D-EDL-D65</li> <li>○ Test Instruments Model<br/>Luminance Meter: Konica Minolta LS-150<br/>Illuminance Meter: Konica Minolta T-10A</li> </ul> |

**Lifespan:** >15years under well packing condition.

**Safety:**

- 1. Toxic:
- 2. Radioactive: NO.

**Other data:**

- 1. Using Condition(recommended):  
With all colorless, transparent medium, such as paint, coating, resin, etc.
- 2. Storage Condition: In cool, dry and ventilated place, with temperature -50~60°C
- 3. Packing: 25kgs /iron pail lined with plastic bags.  
G.W.: 26.6kgs, Dim: D31 x H34cm
- 4. Norm Complied: EN71-3, RoHS, DGM.
- 5. Norm MEET: PSPA Class-E, JIS-Z9107 JC.  
IMO A.752(18), ISO 23601, UL924,  
ASTM E2030/E2072/E2073,  
ATPA SS-PS-002-98/SS-PS-004-99,  
BS 5499-1 2002, NYC Law 26