



# JOLIN CORPORATION

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## Item

Product Description      Photoluminescent pigment  
 Model                        O-B3

## Application Scopes

Screen printing ink, brush/roller/spraying paint indoors, dip plastic coating, injection/extrusion/casting plastic, silicone rubber molding, etc.

## Typical chemical properties

Composition                Strontium Aluminate dopped with Europium Dysprosium oxides.  
 Insoluble in                organic solvents  
 Decomposition by        Strong acids, strong alkalines  
 Fastness to heat         -40~230°C

## Typical physical properties

Appearance                Orange red crystal powder  
 Specific gravity            3.6g/cm<sup>3</sup>  
 Bulk Density                1.21g/cm<sup>3</sup>  
 Average particle size    35~45um. 100% passing 200mesh.

## Typical luminescent properties

Excitation                 all visible light and UV light (200~450nm better)  
 Glow Color                 Orange  
 Afterglow Intensity      10min >120 mcd/m<sup>2</sup>  
 after                         60min >16.8 mcd/m<sup>2</sup>  
                                     600min >0.92 mcd/m<sup>2</sup>

Afterglow intensity(to 0.32mcd/m<sup>2</sup>): >1660min 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>	3676	1145	646	448	341	276	139	91.2	67	42.4	30.4	23.3	18.8	11.5	8.05	4.84	2.52	1.02

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 D65 Xenon Lamp</li> <li>○ Charging Lamp Model Toshiba FL20S.D-EDL-D65</li> <li>○ Test Instruments Model Luminance Meter: Konica Minolta LS-150 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

- 20'Container FCL Q'ty: 11250kgs(palletized)
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