

iSuoChem

Luminous Pigment



Luminous Pigment

Other names:

Glow-in-the-Dark Powder, Photoluminescent Pigment, Strontium Aluminate Powder

Description

iSuoChem® Luminous Pigment is made by activating alkaline earth aluminate with rare earth elements. It has strong light absorption, light storage and light radiation ability. It can glow in the dark for 12 hours continuously after absorbing various visible light for 10 ~ 20 minutes. Its luminous brightness and duration are at least 30 times of traditional luminescent materials represented by ZnS:Cu, and can be used repeatedly.

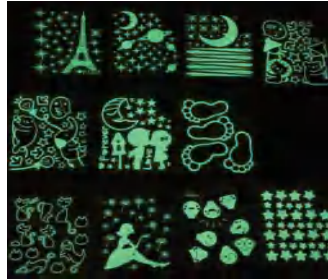
Properties

1. **Nontoxic and nonradiative**, harmless to humans and environment.
2. **More excitation light source permitted.** As long as the light intensity reaches 25LX, it can be used as an excitation light source. In general buildings, the light intensity can get to 500LX and above. Therefore, sunlight, general lighting, surrounding stray light can be used as excitation source.
3. **Longer glowing time:** It's able to produce high-luminescence afterglow in the next 12 hours after 10 ~ 20 minutes of exposure under the light, which is 30 times of traditional luminous pigment which produced by phosphor.
4. **Outdoor applicability:** It has excellent physical and chemical properties and can be used outdoors or in extreme environment. It can resist ultraviolet and maintain its performance basically after thousand hours of exposure to 300W high-voltage mercury lamp. It demonstrates sound ability in resisting chemical corrosion and can be applied in a wide temperature range (-20 to 500°C).
- 5: **More colors available:** yellow-green, blue-green, red, blue and purple.
- 6: **Long service life:** (>15 years) and its characteristics (light absorption, storage and radiation) can be infinitely reused.
7. It can be processed into products in different grain sizes (0.5 - 200 um) corresponding to different industrial requirements.

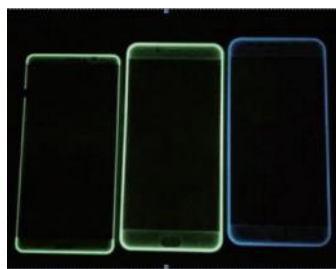
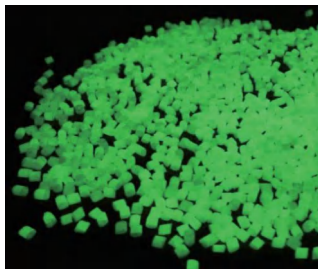
Application

Safety Sign and Road Marking

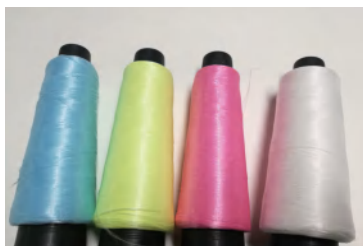
iSuoChem® Luminous Pigment is widely used in Safety sign, such as escape sign, indication sign, safety exit sign, all kinds of floor sign, such as luminous floor sticker sign, luminous glass sign, luminous stainless-steel sign, etc.



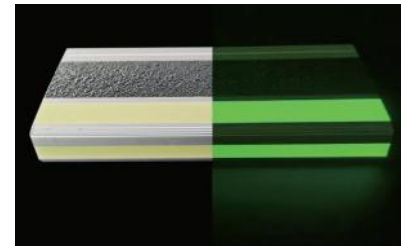
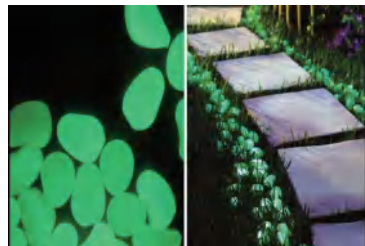
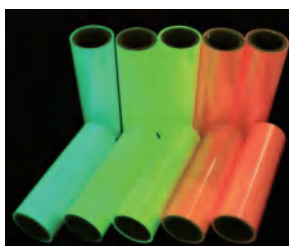
Masterbatch and Plastic products



Yarn and Fabrics



Luminous Film, art-craft and other application.....



Luminous Pigment (Long Afterglow Series)					
Grade	Code No	Particle Size (D50) um	Brightness (mcd/m ²)		
			10 min	60 min	Glow time
High Green	HG85	65~85	725	120	>12 hours
	HG55	45~55	480	85	
	HG35	25~35	380	55	
	HG15	5~15	280	39	
	HG10	2~10	240	30	
Medium Green	MG85	65~85	640	105	>12 hours
	MG55	45~55	450	70	
	MG35	25~35	320	42	
	MG15	5~15	220	29	
	MG10	2~10	190	23	
Ordinary Green	OG40	15~40	300	40	>12 hours
	OG40T	15~40	280	35	
	OG75	55~75	350	40	
	OG45	15~45	250	32	
Cost effective	CG75	55~75	260	35	10 hours
	CG40	15~40	200	25	
High Blue	HB85	65~85	700	120	>12 hours
	HB55	45~55	480	85	
	HB35	25~35	360	58	
	HB15	5~15	260	38	
Medium Blue	MB85	65~85	630	110	>12 hours
	MB55	45~55	440	75	
	MB35	15~35	320	50	
	MB15	5~15	220	30	
Ordinary Blue	OB75	55~75	400	55	>12 hours
	OB45	15~45	280	35	
Cost effective	CB75	55~75	260	38	10 hours
	CB40	15~40	200	23	
High Purple	HP75	45~75	28	5	3 hours
	HP45	15~45	19	3.5	
High Sky-Blue	HSB85	65~85	260	22	8 hours
	HSB55	45~55	220	18	
	HSB35	25~35	180	15	
	HSB15	5~15	140	12	

Luminous Pigment (Coarse Particle Series)					
Grade	Code No	Particle Size (D50) mm	Brightness (mcd/m ²)		
			10 min	60 min	Glow time
High Green	HG02	0.5~2	1050	145	>12 hours
	HG03	0.15~0.3	910	125	
Medium Blue	MG02	0.5~2	950	130	
	MG03	0.15~0.3	820	110	
High Blue	HB02	0.5~2	770	120	
	HB03	0.15~0.3	700	110	
Medium Blue	MB02	0.5~2	700	110	
	MB03	0.15~0.3	660	100	
High Sky-Blue	HSB02	0.5~2	340	28	8 hours
	HSB03	0.15~0.3	300	25	
Luminous Pigment (Ceramics Series)					
Grade	Code No	Particle Size (D50) um	Brightness (mcd/m ²)		
			10 min	60 min	Glow time
High Green	HCG300	150~300	900	120	>12 hours
	HCG100	65~100	700	100	
	HCG55	45~55	500	70	
High Blue	HCB300	150~300	700	110	
	HCB100	65~100	500	100	
	HCB55	45~55	450	70	
Luminous Pigment (Colorful Series)					
Grade	Code No	Particle Size (D50) um	Brightness (mcd/m ²)		
			10 min	60 min	Glow time
Fluorescent Colorful	FCR35	25~35	180	26	6 hours
	FCG35	25~35	170	24	
	FCY35	25~35	200	28	
	FCO35	25~35	180	26	
	FCB35	25~35	140	20	
	FCP35	25~35	140	20	
	FCRP35	25~35	180	26	
Sulfide Colorful	SCGG30	10~30	40	4	3 hours
	SCRR50	20~50	20	1	
	SCRO50	20~50	22	1	
	SCWW45	15~45	170	27	
	SCWO45	10~45	25	1.2	
	SCWR45	10~45	25	1.2	
	SCWRP45	10~45	25	1.2	

Remarks:

1. Test Condition: 1000lux 10min
2. Package: 1kg/ bag, 25bags/ Plastic Pail
3. All iSuoChem® luminous pigment can be used for solvent-based system.
For water-based system, we offer special coating process treatment.

Luminous Pigment



HG Series



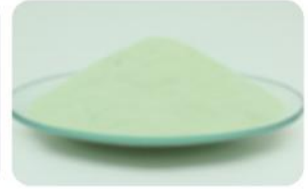
HB Series



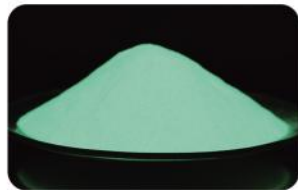
HP Series



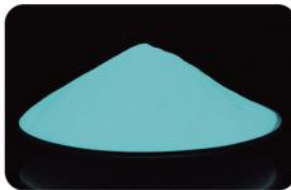
HSB Series



HCG Series



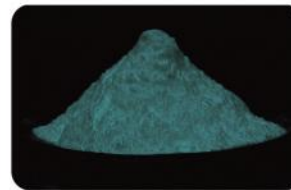
HG Series



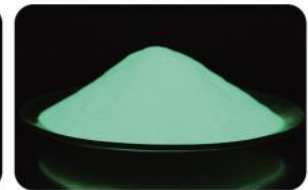
HB Series



HP Series



HSB Series



HCG Series



HCB Series



FCR35



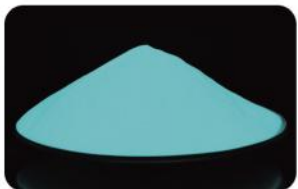
FCG35



FCY35



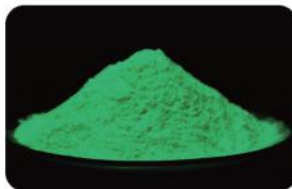
FCO35



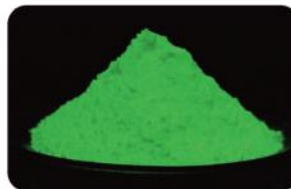
HCB Series



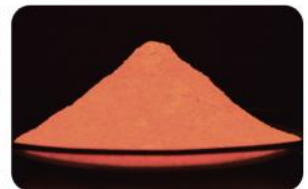
FCR35



FCG35



FCY35



FCO35

Luminous Pigment



SCGG30



SCRR50



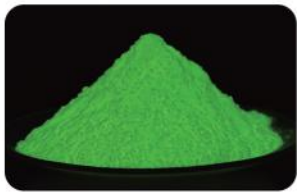
SCRO50



SCWW45



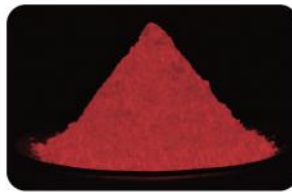
SCWO45



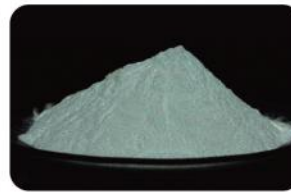
SCGG30



SCRR50



SCRO50



SCWW45



SCWO45



SCWR45



SCWRP45



FCB35



FCP35



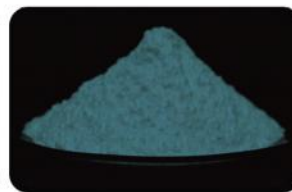
FCRP35



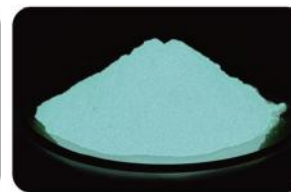
SCWR45



SCWRP45



FCB35



FCP35



FCRP35

SAFE & SAVING & BRIGHT

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