



PHOTOLUMINESCENT PIGMENTS LUMINANCE MEASUREMENTS

STANDARD RANGE (COLORLESS PIGMENTS OF DAY)								
COLORS		Ref	Size	Performances	Luminance			Extinction (0,3 mcd/m ²)
Day	Night				1 min	10 min	60 min	
-	GREEN	YmO-10B	72µm-96µm	++	4310	707	128	8490min
		YmO-10C	48µm-72µm	++	4540	588	116	8011 min
		YmO-10D	36µm-48µm	+++	3590	555	105	6521 min
		YmO-10W	36µm-48µm	+++	3590	555	105	6521 min
		YmO-7	15µm-35µm	+++	1810	265	55	4966 min
		YmO-5E	5µm-15µm	++	NC	NC	NC	NC
		YmO-HE	1µm-5µm	++	NC	NC	NC	NC
		YmO-HDW	5µm-20µm	++	NC	NC	NC	NC
-	BLUE-GREEN	YmB-7C	48µm-72µm	+++	2400	380	90	-
		YmB-7D	36µm-48µm	+++	2050	340	75	-
		YmB-W	36µm-48µm	++	2050	340	75	-
		YmB-7E	25µm-35µm	++	1610	259	30	-
		YmB-7HDW	5µm-20µm	++	NC	NC	NC	-
-	BLUE	YmS	25µm-35µm	-	850	210	18	-
		YmS-W	36µm-48µm	-	1400	310	28	-
		YmS-HDW	5µm-20µm	-	NC	NC	NC	-
-	PURPLE	YmV-7E	25µm-35µm	---	350	90	16	NC
		YmV-7W	36µm-48µm	-	488	122	22	NC
-	WHITE	YmO-1W	20µm-40µm	-	790	140	14	NC
-	YELLOW	YmOY	20µm-40µm	--	510	125	5	NC
-	ORANGE	YmRO	20µm-40µm	--	490	120	5	NC
-	RED	YmR	20µm-40µm	--	420	76	3	NC

NEON RANGE (COLORED PIGMENTS OF DAY)								
COLORS		Ref	Size	Performances	Luminance			Extinction (0,3 mcd/m ²)
Day	Night				1 min	10 min	60 min	
GREEN	GREEN	NPP-VV	5µm-35µm	++	1600	240	40	4500
YELLOW	GREEN	NPP-YG	5µm-35µm	++	1600	240	40	4500
ORANGE	YELLOW	NPP-OY	5µm-35µm	++	1600	240	40	NC
BLUE	BLUE GREEN	NPP-BB	5µm-35µm	+	1400	215	30	NC
BLUE	GREEN	NPP-BG	5µm-35µm	++	1600	1240	40	4500
PINK	ORANGE	NPP-RO	5µm-35µm	++	1400	215	30	4500
PINK	PURPLE	NPP-RV	5µm-35µm	-	340	85	14	NC
PINK	PINK	NPP-RR	5µm-35µm	+	1300	190	30	NC

Discover all pigments, packings and prices from 15g to 25kg: [Click here](#)

Measures after sample lighting with Fluo lamp 1000lux / 10min

The above technical data have been obtained by tests in accordance with DIN67510 Part I, measures expressed in microcandelas / m². Extinction refers to the time in minutes required for the luminance ratio is reduced to 0.32 mcd / m² from the moment when the excitation is stopped by the light.

Phosphorescent pigments

Extra long glow phosphorescent pigments



PRESENTATION:

The phosphorescent pigments have the capacity to store the light and to re-emit it:

They charge when exposed under a light source (sunlight, electric light, or UV) and release gradually the energy by glowing in the dark.

Our pigments are from the latest generation and represent the most efficient grade of photoluminescent materials in term of restitution rate.

Definition: The name phosphorescent covers in general all types of pigments that emit light thanks to a luminous excitement. We will then talk about phosphorescent pigments to be more precise.



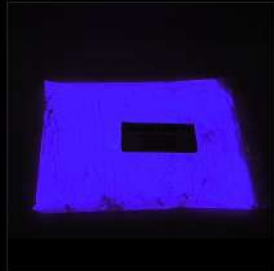
Vert
High luminance
Solvent or Waterbased
All particle sizes



Turquoise (Blue-Green)
Good luminance
Solvent or waterbased



Bleu
Low Luminance
Solvent or Waterbased



Violet
Low Luminance
Solvent or waterbased



White
Low Luminance
Solvent only



Orange
Low Luminance
Solvent only



Red
Short Luminance
Solvent only



Colours	Luminance en mcd/m ² après			
	1MIN	10MIN	60MIN	Lum
Green	2300	358	58	9000
Blue Green	1400	280	44	5400
Blue	63,5	140	26	5000
Violet	41	10	2	380
White	520	69	12	1000
Orange	480	34	2	
Red	400	18	2	

Measurements :
Tests according DIN67510 Part I.
Luminance (Lum) = Time for total extinction (0,32mcd/m²)

Phosphorescents Pigments: Technical Date File

LUMINANCE:

The pigments glow over a variable period of time and in a quick decay curve, that will stabilize itself during long hours. The luminance is measured in microcandela/sqm.

The luminance can totally extinguish days after an excitement to light.

The intensity of the glow will depend of the size of the pigment particle and of its colour: Green particles are larger and will glow longer.

ASPECT:

The pigment powders are **colourless** during the day: From a greenish white (for the green and blue-green colours) to a perfect white (for all others colours).

A "coloured by day" version is also available.

COMPOSITION:

The photoluminescent pigments Arco Iris with their particular structure of crystal are made from "rare earth elements" (Aluminates and Europium Carbonates/Strontium desactivated). Their luminescence is 10 times higher than those of conventional phosphorus/zinc sulfide based pigments



SAFETY:

The product is non-toxic, harmless and non-radioactive. Product not considered to be hazardous (As for our analysis certificates)

They are completely harmless and are completely safe in consumers products such as clothes, shoes, helmets, toys, watches, switches, fishing tools, sporting goods...

RESISTANCE:

Our phosphorescent pigments have a life span of 10 to 20 years. They have a great physical and chemical stability (temperature >1300°C, resists well to UV light). Direct contact with metals and water can accelerate quickly their degradation.

APPLICATION:

Photoluminescent pigments are widely used in industries in manufacturing paints, **injection and moulding, silkscreen painting, luminous panels, tapes or films, ceramic tiles** etc.

Different technical and artistic purposes can be achieved due to their characteristics.

Their lifetime, their ease of use and their infallibility are highly valued for the production of safety products.

TYPE OF PIGMENTS and COMPOUNDS (Masterbatch)

We deal with the biggest choice of pigments, available in several models according to their colours, the size of the particles and their type (**solvent or water based**)

We also produce a range of pigments coloured by day (please contact us by email only) and various types of **Plastic compounds**.

TECHNICAL SPECIFICATIONS:

Glow colour : Green , Bleu-Green, Blue, Violet, Red, Orange, White

Glow decay : Up to 12h after excitation

Density : 3.5+/-0.1 g/cm³ - Humidity: 0.5 %

Available particle size:

5-15µm; 15-35µm, 35-45µm, 45-65µm, 60-100µm , 100-250µm , >500µm



NEON

Phosphorescent pigments

The NEON Range is made with phosphorescent pigments which are special because they display a colourful appearance both during the day and at night.

This is indeed a particular property, as all natural phosphorescent pigments are a white or yellowish powder (under light).

The colour pigments by day have a lower luminous intensity (about 25%) in comparison to the colourless phosphorescent natural pigments by day



Ref Colour during the day/night

NPP-VV: Green/Green
NPP-YG: Yellow/Green
NPP-OY: Orange/Orange
NPP-BB: Blue/Turquoise
NPP-BG: Blue/Green
NPP-RO: Pink/Orange
NPP-RV: Pink/Purple
NPP-RR: Pink/Pink

Available packagings:
15g, 330g, 1kg or 25kg

Use:

by mixing only, in all transparent media
such as resins, binders, topcoats, plastics

Resistance:

The phosphorescent property has excellent temperature resistance (up to 800 °C) and provides durability for at least many decades (if the pigment is stored in its packaging, or immersed in its resin). The colour "by day" cannot withstand more than 200 to 250 °C, and cannot be exposed to sunlight

Composition: Strontium aluminate and dyes



ARCO IRIS SAS
 ZA TESAN PLAN SUD
 30126 ST LARENT DES ARBRES, France
 Tel : (+33)4.66.50.61.66 / Fax : (+33)4.84.25.02.51
 Email : info@photoluminescent.fr
 Site : <http://www.phosphorescent.fr>

Pigments photoluminescents Liste des prix

Photoluminescent pigments Price list

Pigments phosphorescents Couleurs Vert, Turquoise, Bleu, Violet Toutes granulométrie de 5 à 48µm			Phosphorescent pigments Green, Turquoise, Blue, Violet (emited color) All particles sizes from 5 to 48µm	
Prix unitaire ht / kg : 150,00 €			Unit price / kg : 150,00€	
25-50 kg	51 -100kg	101- 250kg	251-500kg	501-1000kg
95,00	85,00	78,00	70	65,00

Pigment phosphorescent Couleur Blanc (couleur émise) Granulométrie 36-48µm		Phosphorescent pigments 36-48µm White (emited color)	
Prix unitaire ht / kg : 330,00 €		Unit price / kg : 330,00€	
25-100 kg	101- 250kg	251-500kg	501-1000kg
180,00	165,00	148,00	140,00

Pigments phosphorescents Couleur Jaune Orange Rouge (couleur émise) Granulométrie 36-48µm			Phosphorescent pigments 36-48 µm Yellow Orange Red (emited color)	
Prix unitaire ht / kg : 365,00 €			Unit price / kg : 365,00€	
25-100 kg	101- 250kg	251-500kg	501-1000kg	
237,00	219,00	204,00	196,00	

Pigments phosphorescents «Colorés de jour et de nuit» Granulométrie 15-35µm				Phosphorescent pigments « NEON » Range colored by day an night			
NPP-RO	NPP-YG	NPP-OY	NPP-BB	NPP-BG	NPP-VV	NPP-RV	NPP-RR
jour							day
nuit							night
Prix unitaire ht / kg : 150,00 €				Unit price / kg : 150,00€			
25-50 kg	51 -100kg	101- 250kg	251-500kg	501-1000kg			
95,00	85,00	78,00	70,00	65,00			