

Oil Paint Pigment Chart

**Oil Paint Pigment Chart**

		Color	Drying Time	Lightfastness	Opacity	Notes
<b>Yellows</b>	PY35	Cadmium Light	Slow	Very	SO / O	Very opaque, standard primary yellow
	PY37	Cadmium	Slow	Very	SO / O	Very opaque, standard primary yellow
	PY41	Naples Yellow	Fast	Very	O	Greenish pinkish pale yellow, lead based so is poisonous
	PY43	Ochre	Medium	Very	O	Dirty earth yellow
	PY42	Mars/Yellow Oxide	Medium	Very	O	Synthetic earth colour, clearer than Yellow Ochre, Gold Ochre is similar but even clearer again
	PY119	Mars/Yellow Oxide	Slow	Very	O	Redder version of above
	PY40	Cobalt / Aureolin	Fast	Moderate	ST / T	Not common, leathery top notes, warm golden glow
	PY184	Bismuth	Medium	Very	SO	New pigment, clear bright primary yellow, alternative for Cad Yellow
	PY53	Lemon	Medium-Slow	Very	SO	Good pigment, nickle titanate can cause allergic skin reactions
	PY36	Zinc Yellow	Fast	Very-Marginal	SO	Weak tint, considered poisonous, pale greenish turning greener with age, much debate over lightfastness, discontinued in 1990's
	PY34	Chrome Yellow	Fast	Marginal	O	Poisonous and always fade or turn brown. Avoid.
	PY32	Strontium Yellow	?	Moderate-Marginal	O	Bright pale yellow, green tinge, greening with age, poisonous to produce so is not common
	PY108	Anthrapyrimidine	Medium	Very-Moderate	T	Some fading in tints, bright yellow
	PY112	Flavonthrone	Medium	Very-Moderate	T	Some fading in tints, reddish yellow
		PY110	Isoindolone	Medium	Very	T / ST
	PY139	Isoindolone Paliotol	Slow	Very	ST	Reddish yellow
Azo / Hansa / Arylides / Diazo	PY1	Hansa Medium	Slow	Marginal	T	Bright yellow, almost identical to PY73
	PY3	Hansa Light	Slow	Marginal	ST / T	Fades in tints, strong tint, greenish yellow
	PY65	Arylide	Slow	Moderate	ST	Fades somewhat in tints, bright reddish yellow
	PY128	Cromophytal Yellow 8G	?	Very	T	Brilliant clear primary yellow, very transparent, strong tint, greenish?
	PY73	Arylide Yellow GX	Slow	Moderate	O	Some fading in tints, bright reddish yellow

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	PY74	Arylide yellow 5GX	Medium	Marginal	ST	Fades in tints, bright yellow
	PY83	Diarylide Yellow HR70	Medium	Very	T	Possibly fades in tints, good tint strength, reddish yellow, Indian Yellow substitute
	PY97	Arylide Yellow FGL	Medium	Marginal	T	Fades in tints
	PY98	Arylide	Medium	Moderate	O	Bright greenish yellow similar to PY3, less opaque than Cad Yellows
	PY150	Nickle Azo Yellow	Fast	Very	T	Super transparent bright yellow, greenish
	PY151	Benzimidazolone HG4	Fast	Very	ST	Greenish yellow, dull tints
	PY153	Nickle Dioxine	Medium	Moderate	T	Bright yellow, dull tints, Indian Yellow substitute, strong tint
	PY154	Benzimidzolone H3G	Medium	Very	SO	Dull tints
	PY156	Benzimidzolone HLR	Medium	Very	T	Dull tints
	PY175	Benzimidzolone H6G	Medium	Very	ST	Dull tints
		<b>Color</b>	<b>Drying Time</b>	<b>Lightfastness</b>	<b>Opacity</b>	<b>Notes</b>
<b>Orange</b>	PO20	Cadmium Orange	Slow	Very	SO	Traditional go-to orange, very good pigment
	PO73	Pyrrole Orange	Medium	Very	ST	New pigment, dependable colour, excellent pigment, colour similar to vermilion
	PO23	Cadmium Vermillion orange	Slow	Very	O	Contains vermilion, highly toxic
	PO36	Benzimidazolone orange HL	Medium	Moderate	SO/O	Scarlet orange, can become dull & lose intensity in tints
	PO43	Perinone	Medium	Very	T	Intense hue, possibly fades slightly & possibly darkens slightly
	PO48	Quinacridone Gold	Medium-Slow	Very	T	Yellow orange similar to burnt sienna but stronger tint
	PO49	Quinacridone Gold Deep	Slow	Very	T	Red orange similar to burnt sienna but stronger tint
	PO59	Paliotol	Medium	Moderate	ST	Bright red orange
	PO60	Benzimidazolone orange HGL	Slow	Very	T	Warm orange, dull in tints
	PO61	Isoindoline orange	Slow	Very	T	Warm dark orange
	PO62	Benzimidazolone orange HSG	Average	Very	ST	Same colour as Cad Orange but ST, can become dull in tints, loses intensity as it dries.
	PO65	Methin nickel complex	?	Very	SO	Dull, earthy red orange, discontinued?
	PO67	Pyrazolochinazolone	Slow	Very	O	Possibly darkens slightly
	PO69	Isoindolin	?	Moderate	O	Known to fade
	PO71	Irgazine orange	?	Very	T	Mid orange, cleaner than Cad Orange
	PO5	Dinitraniline orange	Medium	Moderate	ST	Bright reddish orange, full to medium tone lightfastness only
	PO21	Chrome orange	?	Marginal	O	Bright, intense, discontinued?

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	PO13	Permanent orange G	Medium	Moderate	ST	Bright reddish orange, fades in tints, high tint strength, replaced by PO61
	PO105	Red lead	Fast	Marginal	O	Toxic, turns brown
		<b>Color</b>	<b>Drying Time</b>	<b>Lightfastness</b>	<b>Opacity</b>	<b>Notes</b>
<b>Red</b>	PR108	Cadmium	Slow	Very	O	Very opaque, standard bright red
	PR83	Alizarin Crimson	Slow	Marginal	T	Do not use as it fades & is brittle. Use Permanent Alizarin or a Quinacridone
	PR177	Anthraquinoid Red	Slow	Moderate	T	A very close match for Alizarin Crimson, slightly warmer red
	PR168	Bromated Anthrathrone	Slow?	Moderate	T	Weak tint, dull tint
	PR101	Mars / Transparent Red Oxide	Medium	Very	T – O	Synthetic iron oxide, earthy to orange reds, many shades and names – Indian, Venetian, Light, Terra Rosa, Burnt Sienna, Red Ochre, Brown Oxide, English, and more, transparent variety is said to be worth trying
	PR102	Natural Red Ochre	?	Very	SO	Strong tint, rare
	PV19	Quinacridone Red & Violet	Slow	Very	T	Excellent pigment, strong tint, clear bright colour varies from red to red violet
	PR20	Quinacridone Brown	Slow	Very	T	Red violet brown, not a strong tint
	PR122	Quinacridone Magenta	Slow	Very	T	Excellent pigment, bright blue red
	PR192	Quinacridone Red Y	Slow	Very	T	Excellent pigment, strong tint, magenta undertone
	PR206	Quinacridone (burnt sienna)	Slow	Very	T	Excellent pigments, a stronger clearer Burnt Sienna
	PR207	Quinacridone Scarlet	Slow	Very	T	Excellent pigment, used in auto industry, scarlet
	PR209	Quinacridone	Slow	Very	T	Excellent pigment, scarlet
	Nat R9	Rose Madder	Slow	Marginal	T	Beautiful colour that fades
	PR194	Perinone Red Deep	Slow	Very	T	Excellent pigment, scarlet
	PR175	Benzimidazolone Red	Medium	Very	T	Maroon, lacks brightness, colour a bit dirty
	PR166	Cromophtal Red	?	Very	?	?
	PR184	?	?	?	?	Blueish red
	PR260	Isoindolin Red	?	Very	?	Loses tint power in whites
	PR88	Thioindigoid Red	Medium	Very	ST	Excellent pigment, intense red violet, sometimes sold as a violet
	PR123	Perylene Vermilion	Medium	Marginal	T	Tints have marginal lightfastness, bright red
	PR149	Perylene Red BL	Medium	Marginal	T	Tints have marginal lightfastness, bright red, strong tint
	PR178	Perylene Red	Medium	Very	T	Orange red
	PR179	Perylene Maroon	Medium	Very	T	Lacks brightness, strong tint, magenta/maroon

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	PR190	Perylene Scarlet	Medium	Very	T	Loses intensity in tints
	PR254	Pyrrrole (mid red)	Medium	Very	SO	Strong red, good alternative to Cad Red, brighter, cleaner, mid red
	PR255	Pyrrrole (scarlet)	Medium	Very	SO	Strong red, good alternative to Cad Red, brighter, cleaner, scarlet red
	PR264	Pyrrrole (crimson)	Medium	Very	SO	Strong red, good alternative to Cad Red, brighter, cleaner, crimson red
Naphthols	PR7	Naphthol Red F4HR or AS-TR	Slow	Very	T	Blueish red, possibly fades in pale tints
	PR119	Naphthol Red FG	Medium	Very	?	Clean bright yellowish red, the only Naphthol lightfast in even pale tints
	PR188	Naphthol Red HF3S	Medium	Very	SO	Very pure yellowish red
	PR5	Naphthol	Slow	Moderate	T	Deep crimson red
	PR9	Naphthol	Slow	Marginal	T	Fades badly in tints, blue red
	PR14	Naphthol	Medium	Moderate	?	Very dark red
	PR112	Naphthol	Medium-Slow	Marginal	SO	Fades badly in strong light or tints
	PR170	Naphthol	Medium	Moderate	SO	Bright strong blueish red
	PR17	Naphthol	?	Marginal	?	Very impermanent
	PR146	Naphthol	Medium	Marginal	?	Always fades in tints, avoid
Azos	PR57	Lithol Rubine	?	Moderate-Marginal	T	High tint strength, 57+blueish, 57:1 pinkish, both deep transparent reds, makes clean pinks when tinted, similar colour to PR184
	PR62	Azo Red Transparent	?	Moderate	SO	Dark blueish red
	PR148	Azo	?	Moderate	SO	Not well regarded? No longer available?
	PR214	Scheveningen Red	?	Moderate	SO	Dark red yellowish with moderate tint strength
		<b>Color</b>	<b>Drying Time</b>	<b>Lightfastness</b>	<b>Opacity</b>	<b>Notes</b>
<b>Violet</b>	PV14	Cobalt Violet	Medium	Very	ST	Shades vary from red to blue, interesting mixing properties, highly recommended
	PV16	Manganese	Fast	Very	ST	Weak tint, shades vary from red to blue, blue is similar to Cobalt Violet
	PR101	Mars	Medium	Very	O	Newish pigment, strong dense yet gentle and unusual colour said to be a versatile mixer
	PV15	Ultramarine	Medium	Very	ST	Very weak tint, often considered too weak for oils
	PR122	Quinacridone (blue shade)	Slow	Very	T	Strong tint, clear bright colour, blue violets
	PV19	Quinacridone (red shade)	Slow	Very	T	Strong tint, clear bright colour varies from red to red violet

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	PV37	Dioxazine	Medium	Moderate	ST	High tinting strength, fades but is the more stable variety
	PV23	Dioxazine	Medium	Moderate	ST	High tinting strength, fades
	PV31	Isoviolanthrone	Medium	Very	T	Not common
		<b>Color</b>	<b>Drying Time</b>	<b>Lightfastness</b>	<b>Opacity</b>	<b>Notes</b>
<b>Blue</b>	PB29	Ultramarine	Medium-Slow	Very	ST	Standard blue
	PB28	Cobalt	Medium-Fast	Very	ST	Mid blue
	PB74	Cobalt Deep	Medium-Fast	Very	ST	New pigment, reddish blue
	PB35	Cerulean (sky blue)	Slow	Very	SO	Sky blue
	PB36	Cerulean (turquoise)	Slow	Very	SO	Turquoise
	PB33	Manganese	Fast	Moderate	ST	Very weak tint, mostly discontinued, replaced with Phthalo Blue and White
	PB15	Phthalo (blue)	Medium-Fast	Very	T	Intense tint, dark blue
	PB16	Phthalo (turquoise)	Medium-Fast	Very	T	Intense tint, turquoise
	PB27	Prussian Blue	Fast	Very	ST	Dark blue with green tones
	PB60	Indanthrone (red blue shade)	Very Slow	Very	SO / T	New pigment, clear deep blue with red tinge
	PB22	Indanthrone (green shade)	Very Slow	Very	SO / T	New pigment, clear deep blue with green tinge
		<b>Color</b>	<b>Drying Time</b>	<b>Lightfastness</b>	<b>Opacity</b>	<b>Notes</b>
<b>Green</b>	PG18	Viridian	Medium-Slow	Very	T	Deep green, highly recommended
	PG23	Terre Verte	Slow	Very	ST / T	Weak tint, earth green, colour varies depending on clays used
	PG7	Phthalo (blue shade)	Medium-Fast	Very	T	Intense tint, deep blue green, often a substitute for Viridian
	PG36	Phthalo (yellow shade)	Medium-Fast	Very	T	Intense tint but less so than above, yellow green
	PG10	Green gold	Very Slow	Very	T	Very transparent
	PG17	Oxide of Chromium	Medium	Very	O	Strong tint, dull opaque willow green, interesting mixing properties, highly recommended
	PG19	Cobalt Green (blue green)	Medium	Very	SO / O	Weak tint, dull blue green
	PG26	Cobalt Green (dark green)	Medium	Very	SO / O	Weak tint, dark green which can be emulated with Phthalo Green, Sienna and Zinc White
	PG50	Cobalt Green (turquoise)	Medium	Very	SO / O	Weak tint but slightly stronger than above, turquoise
	PY129	Irgazin	Fast	Very	ST / T	Green gold to olive, not a strong tint
	PG24	Ultramarine	Medium	Very	T	Weak tint, hard to find, varies from deep blueish to grey green
	PG55	Ultramarine	Medium	Very	T	No longer produced

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		Color	Drying Time	Lightfastness	Opacity	Notes
<b>Brown</b>	Pbr6	Mars Brown		Very	O	Very opaque dull brown
	Pbr7	Raw Sienna	Fast	Very	ST	Dirtier version of Yellow Ochre, earth colour
	Pbr7 or PR101	Burnt Sienna	Fast	Very	ST	Very versatile, dark dull orange brown, earth colour
	Pbr7	Raw Umber	Fast	Very	ST	Earth brown varies from grey to green shades
	Pbr7	Burnt Umber	Fast	Very	ST	Staining, dark chocolate, dull earth brown
	Pbr23	Gubbio Red		Very	ST	Earth like brown
	PY43	Yellow Ochre	Slow	Very	ST	Natural iron oxide, dirtier version of Mars Yellow, earth colour
	Pbr24	Nickle Titanate	Fast	Very	O	Earthy yellow, interesting mixing colour
		Color	Drying Time	Lightfastness	Opacity	Notes
<b>Black</b>	Pbk9	Ivory	Slow	Very	ST	Glossy, brownish warm tones, is brittle & will crack when used in under layers
	Pbk11	Mars	Fast	Very	O	Dense, warm tone
	Pbk6 & Pbk7	Lamp or Carbon	Slow	Very	O	Matte, cool tone, avoid using in underpainting due to slow drying time, very very oily
	Pbk31	Perylene	Medium-Slow	Very	ST	New pigment, clear greenish black
	Pbk26	Spinel Black			T	Truly transparent black that can be mixed on palette
	Pbk19	Davy's Grey				Powdered slate
	PBk8	Vine	Slow	Very	ST	Weak tint, warm tone
			Color	Drying Time	Lightfastness	Opacity
<b>Whites</b>	PW1	Flake	Fast	Very	O	Poisonous, warm tone, used by Old Masters, considered to have the best handling
	PW2	Lead Sulphate				Avoid
	PW4	Zinc	Slow	Very	O	Most transparent of the whites but still opaque, cold tone
	PW5	Lithopone	Very Slow	Moderate	ST	
	PW6	Titanium	Slow	Very	O	Very opaque, some think this is too chalky
	PW17	Bismuth White				Avoid
		Color	Drying Time	Lightfastness	Opacity	Notes

## Oil Paint Pigment Chart

There was no one place where I could find all the pigment information I wanted, at a glance, for oil painting. So I put it together myself. This is gathered from a number of resources and about a gazillion google searches for each individual pigment. Though this is as comprehensive as I could make it, I am sure you will be able to find the odd pigment here and there that has been missed. Sorry, there are a *lot* of pigments in use. All the most common ones are covered. Pass this chart around if you please.

### Who wrote this?



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NB: Many pigments have a high lightfastness rating on their own but fade in tints or mixes. In practice this means that they fade, as a colour is usually mixed with another. In this chart, pigments which fade in tints are not listed as Very lightfast even if they are rated at ASTM 1. They are listed with the lightfastness that their tints are known to have.

Major resources consulted:

[Color Index Pigment Information Database](#)  
[Paintmaking.com](#)

[Oils and Pigments by Jan Esmann](#)

[Art School At Home](#)

[Dick Blick art supplies, oil colour, item details, pigment info](#)

[The Artist's Handbook by Pip Seymour](#)

endless Google searches