

High Flow										
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Swatches	GOLDEN Name	Pigment Classification	Color Index Name	Color Index Number	Chemical Description	Opacity/Transparency	Lightfastness Rating	Permanency	Munsell Notation Listing	Gloss Average
	Hansa Yellow Light	Organic	PY 3	11710	Arylide Yellow	N/A	N/A	Fair	N/A	N/A
	Benzimidazolone Yellow Light	Synthetic Organic	PY175	11784	Benzimidazolone Yellow H6G	9	I - Excellent	Excellent	N/A	N/A
	Hansa Yellow Medium	Organic	PY73	11738	Arylide Yellow	N/A	I	Excellent	N/A	N/A
	Benzimidazolone Yellow Medium	Synthetic Organic	PY154	11781	Benzimidazolone Yellow H3G	N/A	I - Excellent	Excellent	N/A	N/A
	Nickel Azo Yellow	Mixture	PY 150	12764	Nickel Complex Azo	N/A	I	Excellent	N/A	N/A
	Diarylide Yellow	Organic	PY 83	21108	Diarylide Yellow HR-70	N/A	I	Excellent	N/A	N/A
	Quinacridone/Nickel Azo Gold	Mixture	PO 48 PY 150	73900/ 73920/ 12764	Quinacridone Nickel Complex Azo	N/A	I	Excellent	N/A	N/A
	Pyrrrole Orange	Organic	PO 73	561170	Dipyrrolypyrrol	N/A	N/A	Very Good	N/A	N/A
	Naphthol Red Light	Inorganic	PR 112	12370	Inorganic Nappththol AS-D	N/A	II	Very Good	N/A	N/A
	Quinacridone Red	Organic	PV 19	73900	Quinacridone	N/A	I	Excellent	N/A	N/A
	Quinacridone Magenta	Organic	PR 122	73915	Quinacridone	N/A	I	Excellent	N/A	N/A
	Alizarin Crimson Hue	Mixture	PR 122 PR 206 PG 7	12370 73903 74260	Quinacridone/ Quinacridone Chlorinated Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Permanent Violet Dark	Mixture	PB 60 PR 122	69800 73915	Indanthrone Quinacridone	N/A	I	Excellent	N/A	N/A
	Indigo Blue (Anthraquinone)	Organic	PB 60	69800	Indanthrone	N/A	I	Excellent	N/A	N/A
	Ultramarine Blue	Inorganic	PB 29	77007	Polysulfide of Sodium - Alumino - Silicate	N/A	I	Not for exterior use	N/A	N/A
	Cerulean Blue Hue	Mixture	PW 6 PB 15.3 PG 7	77891 74160 74260	Titanium Dioxide Rutile Copper Phthalocyanine Chlorinated Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Phthalo Blue (Green Shade)	Organic	PB15.3	74160	Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Teal	Mixture	PW6 / PB15.3 / PG7	77891 74160 74260	Titanium Dioxide Rutile/ Copper Phthalocyanine/ Chlorinated Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Turquoise (Phthalo)	Mixture	PB 15.3 PG 7	74160 74260	Copper Phthalocyanine/ Chlorinated Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Phthalo Green (Blue Shade)	Organic	PG 7	74260	Chlorinated Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Permanent Green Light	Mixture	PY175, PG7, PW6	11784, 74260, 77891	Benzimidazolone Yellow H6G, Chlorinated Copper Phthalocyanine, Titanium Dioxide Rutile	N/A	I - Excellent	Excellent	N/A	N/A
	Green Gold	Mixture	PY150, PG175, PY3	12764, 11784, 74265	Benzimidazolone Yellow H6G, Chlorinated Copper Phthalocyanine, Titanium Dioxide Rutile	N/A	I - Excellent	Excellent	N/A	N/A
	Sap Green Hue	Mixture	PG 36 PR 101 PY 150 PBK 7	74265 77491 12764 77266	Brominated & Chlorinated Copper Phthalocyanine/ Synthetic Red Iron Oxide/ Nickel Complex Azo/ Nearly Pure Amorphous Carbon	N/A	I	Excellent	N/A	N/A
	Yellow Oxide	Inorganic	PY 42	77492	Synthetic Hydrated Iron Oxide	N/A	I	Excellent	N/A	N/A
	Raw Sienna	Inorganic	PY 43	77492	Natural Iron Oxide	N/A	I	Excellent	N/A	N/A
	Burnt Sienna	Inorganic	PBr7	77491	Calcined Natural Iron Oxide	N/A	I	Excellent	N/A	N/A
	Sepia	Mixture	PR 101 PY 150 PBK 7	77491 12764 77266	Synthetic Iron Oxide/ Nickel Complex Azo/ Nearly Pure Amorphous Carbon	N/A	I	Excellent	N/A	N/A
	Raw Umber	Inorganic	PBr 7	77492	Natural Iron Oxide containing Manganese	N/A	I	Excellent	N/A	N/A
	Carbon Black	Inorganic	PBK 7	77266	Calcined Natural Iron Oxide containing Manganese	N/A	I	Excellent	N/A	N/A
	Titan Buff	Inorganic	PW 6.1 / PW 6	77891	Titanium Dioxide Rutile	N/A	I	Excellent	N/A	N/A
	Titanium White	Inorganic	PW 6	77891	Titanium Dioxide Rutile	N/A	I	Excellent	N/A	N/A
	Neutral Gray	Mixture	PW 6 PBK 9 PBr 7	77891 77267 77491	Titanium Dioxide Rutile Amorphous Carbon produced by charring animal bones Calcined Natural Iron Oxide	N/A	I	Excellent	N/A	N/A
	Transparent Hansa Yellow Med	Organic	PY 73	11738	Arylide Yellow GX	N/A	N/A	Fair	N/A	N/A
	Transparent Benzimidazolone Yellow Medium	Synthetic Organic	PY154	11781	Benzimidazolone Yellow H3G	N/A	I - Excellent	Excellent	N/A	N/A
	Transparent Naphthol Red Light	Organic	PR 112	12370	Naphthol AS-D	N/A	II	Very Good	N/A	N/A
	Transparent Quinacridone Red	Organic	PV19	73900	Quinacridone	N/A	I	Excellent	N/A	N/A
	Transparent Dioxazine Purple	Organic	PV 23	51319	Carbozole Dioxazine	N/A	II	Very Good	N/A	N/A
	Transparent Phthalo Blue GS	Organic	PB15.3	74160	Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Transparent Phthalo Green BS	Organic	PG 7	74260	Chlorinated Copper Phthalocyanine	N/A	I	Excellent	N/A	N/A
	Transparent Yellow Iron Oxide	Inorganic	PY 42	77492	Synthetic Iron Oxide	N/A	I	Excellent	N/A	N/A
	Transparent Red Iron Oxide	Inorganic	PR 101	77491	Sythetic Iron Oxide	N/A	I	Excellent	N/A	N/A
	Transparent Brown Iron Oxide	Mixture	PR 101 PBK 7	77491 77266	Synthetic Iron Oxide/ Nearly Pure Amorphous Carbon	N/A	I	Excellent	N/A	N/A
	Transparent Shading Gray	Inorganic	PBK 7	777266	Nearly Pure Amorphous Carbon	N/A	I	Excellent	N/A	N/A
	Fluorescent Chartreuse	Organic	N/A	N/A	Dyed Polymer Particles	N/A	N/A	Poor	N/A	N/A
	Fluorescent Orange	Organic	N/A	N/A	Dyed Polymer Particles	N/A	N/A	Poor	N/A	N/A
	Fluorescent Pink	Organic	N/A	N/A	Dyed Polymer Particles	N/A	N/A	Poor	N/A	N/A
	Fluorescent Blue	Organic	N/A	N/A	Dyed Polymer Particles	N/A	N/A	Poor	N/A	N/A
	Fluorescent Green	Organic	N/A	N/A	Dyed Polymer Particles	N/A	N/A	Poor	N/A	N/A
	Iridescent Copper (Fine)	Inorganic	N/A	N/A	Iron Oxide coated Mica particles Chlorinated Copper Phthalocyanine	3	N/A	Excellent	Hue N/A Value N/A Chroma N/A	More of a reddish appearance for a very convincing copper look.
	Iridescent Gold (Fine)	Inorganic	N/A	N/A	Titanium Dioxide & Iron Oxide coated Mica Particles	4	N/A	Excellent	Hue N/A Value N/A Chroma N/A	35.19
	Iridescent Pearl (Fine)	Inorganic	N/A	N/A	Iron,Chromium,Nickel	3	N/A	Excellent	Hue N/A Value N/A Chroma N/A	36.33
	Iridescent Silver (Fine)	Inorganic	N/A	N/A	Titanium Dioxide coated Mica Particles/ Nearly Pure Amorphous Carbon	3	N/A	Excellent	Hue N/A Value N/A Chroma N/A	37.66

Lightfastness

The Lightfastness Ratings are provided by the American Society for Testing and Materials (ASTM) in the standard for "Artists' Acrylic Emulsion Paints". (ASTM D 5098, Annual Book of Standards, Volume 6.02). Colors with a Lightfastness Rating of I are considered Excellent ("Exc.") and those with a Lightfastness Rating of II are Very Good ("V.G."). Where Lightfastness Ratings have not been obtained according to ASTM test protocol, "N/A" is used. In those cases, data from pigment manufacturers and our own test facilities have been used and an appropriate description assigned under Permanency.

Lightfastness I: Excellent

Artist colors are let down with white to arrive at a pastel shade. These samples are exposed to an accelerated dose of light energy equivalent to that which would be expected to occur during approximately 100 years of museum-lit conditions. This exposure is condensed into approximately 15 weeks of testing time, or less, depending upon the accelerated test methods used. For the purposes of the official test, before and after color difference is determined using a spectrophotometer, and difference units are mathematically calculated. Less than 4 units color change earns a color the designation of Lightfastness I. In practicality, this means that a visual comparison of the unexposed and exposed samples, when held adjacent, would reveal, at worse, a barely perceptible color change.

Lightfastness II: Very Good

Under the same test conditions, a visual comparison of adjacent unexposed and exposed samples will reveal a perceptible color change. This change will quickly become imperceptible to most observers as the sample pieces are moved apart from one another. When expressed mathematically, change falling within the range of 4-8 units is covered by this category.

Perm

Lightfastness and durability based on our testing and manufacturer's data.

** The identified colors are sensitive to a combination of moisture and UV radiation and are not recommended for outdoor use.

Opacity/Transparency

We have determined that an eight-point scale is most appropriate for describing the properties of our colors. We have assigned each color in the chart a number from 1 (most opaque) to 8 (most transparent) to indicate the opacity/transparency of that color.

C.I. Name / C.I. Number

The Colour Index Name and Number are internationally recognized codes assigned to a particular "colorant" by both the Society of Dyers and Colourists and the American Association of Textile Chemists and Colorists. The C.I. Name consists of the category (type of dye or pigment), general hue and serial number, based on its chemical constitution. For example, PB 60, Anthraquinone Blue, indicates a specific Pigment Blue. The C.I. Number is a five-digit reference number assigned in the Colour Index based on the chemical structure of a colorant, regardless of usage class. For more information on these please see the following:

[The Nomenclature of Color](#)

Type

Designates whether the pigments used in a color are based on Organic or Inorganic chemistry. When containing both types, the term Mixed is used.

Permanency

Exc. - Excellent

V.G. - Very Good

Poor

Abbreviations

C.P. - indicates concentrated cadmium pigments (CC).

G.S. - Green Shade

B.S. - Blue Shade

R.S. - Red Shade

Y.S. - Yellow Shade