

<b>GOLDEN Name</b>	<b>Pigment Classification</b>	<b>Color Index Name</b>	<b>Chemical Description</b>	<b>Opacity/ Transparency</b>	<b>Lightfastness Rating</b>	<b>Permanency</b>
Anthraquinone Blue	Synthetic Organic	PB60	Indanthrone	Semi-Transparent	1	Excellent
Bismuth Vanadate Yellow	Inorganic	PY184	Bismuth Vanadate	Semi-Opaque	1	Excellent
Bone Black	Natural Inorganic	PBk9	Amorphous Carbon produced by charring animal bones	Semi-Opaque	1	Excellent
Burnt Sienna	Natural Inorganic	PBr7	Calcined Natural Iron Oxide	Opaque	1	Excellent
Burnt Umber	Natural Inorganic	PBr7	Calcined Natural Iron Oxide containing Manganese	Opaque	1	Excellent
Burnt Umber Light	Natural Inorganic	PBr7	Calcined Natural Iron Oxide containing Manganese	Semi-Opaque	1	Excellent
Carbon Black	Natural Inorganic	PBk7	Nearly Pure Amorphous Carbon	Opaque	1	Excellent
Cerulean Blue, Chromium	Synthetic Inorganic	PB36	Cobalt Chromate Spinel	Semi-Opaque	1	Excellent
Cerulean Blue Deep	Synthetic Inorganic	PB36	Cobalt Chromate Spinel	Semi-Opaque	1	Excellent
Chromium Oxide Green	Synthetic Inorganic	PG17	Anhydrous Chromium Sesquioxide	Opaque	1	Excellent
Chromium Oxide Green Dark	Inorganic	PG17	Anhydrous Chromium Sesquioxide	Opaque	1	Excellent
Cadmium Orange	Synthetic Inorganic	PO20	Concentrated Cadmium Sulfoselenide	Opaque	1	Not for Exterior Use
Cadmium Red Dark	Synthetic Inorganic	PR108	Concentrated Cadmium Sulfoselenide	Opaque	1	Not for Exterior Use

Cadmium Red Light	Synthetic Inorganic	PR108	Concentrated Cadmium Sulfoselenide	Opaque	1 Not for Exterior Use
Cadmium Red Medium	Synthetic Inorganic	PR108	Concentrated Cadmium Sulfoselenide	Opaque	1 Not for Exterior Use
Cadmium Yellow Dark	Synthetic Inorganic	PY35	Concentrated Cadmium Zinc Sulfide	Opaque	1 Not for exterior use
Cadmium Yellow Light	Synthetic Inorganic	PY35	Concentrated Cadmium Zinc Sulfide	Opaque	1 Not for exterior use
Cadmium Yellow Medium	Synthetic Inorganic	PY35	Concentrated Cadmium Zinc Sulfide	Opaque	1 Not for exterior use
Cadmium Yellow Primrose	Synthetic Inorganic	PY35	Concentrated Cadmium Zinc Sulfide	Opaque	1 Not for exterior use
Cobalt Blue	Synthetic Inorganic	PB28	Oxides of Cobalt and Aluminum	Semi-Transparent	1 Excellent
Cobalt Green	Synthetic Inorganic	PG26	Cobalt Chromite Green Spinel	Semi-Opaque	1 Excellent
Cobalt Turquoise	Synthetic Inorganic	PB36	Cobalt Chromate Spinel	Semi-Opaque	1 Excellent
Diarylide Yellow	Synthetic Organic	PY83(HR70)	Diarylide Yellow HR70	Semi-Opaque	1 Excellent
Dioxazine Purple	Synthetic Organic	PV23	Carbazole Dioxazine	Transparent	2 Very Good
Graphite Gray	Synthetic Inorganic	PBk10	Crystallized Carbon	Opaque	1 Excellent
Green Gold	Mixture	PY150 / PG36 / PY175	Nickel Complex Azo / Brominated and Chlorinated Copper Phthalocyanine / Benzimidazolone Yellow H6G	Transparent	1 Excellent

Hansa Yellow Opaque	Synthetic Organic	PY74	Arylide Yellow 5GX	Semi-Opaque		1 Excellent
Jenkins Green	Mixture	PBk9 / PG36 / PY150	Amorphous Carbon produced by charring animal bones / Brominated and Chlorinated Copper Phthalocyanine / Nickel Complex Azo	Semi-Transparent		1 Excellent
Mars Black	Synthetic Inorganic	PBk11	Synthetic Black Iron Oxide	Opaque		1 Excellent
Mars Yellow	Synthetic Inorganic	PBr6	Mixture of Synthetic Iron Oxides	Opaque		1 Excellent
Naphthol Red Light	Synthetic Organic	PR112	Naphthol AS-D	Semi-Transparent		2 Very Good
Naphthol Red Medium	Synthetic Organic	PR5	Naphthol ITR	Semi-Opaque		2 Very Good
Nickel Azo Yellow	Synthetic Organic	PY150	Nickel Complex Azo	Transparent		1 Excellent
Payne's Gray	Mixture	PB29 / PBk7	Polysulfide of Sodium-Alumino-Silicate / Nearly Pure Amorphous Carbon Benzimidazolone Yellow H6G /	Semi-Opaque		1 Excellent
Permanent Green Light	Mixture	PY175 / PG7 / PW6	Chlorinated Copper Phthalocyanine / Titanium Dioxide Rutile	Semi-Opaque		1 Excellent
Permanent Maroon	Mixture	PR122 / PY150 / PR101 / PG7	Quinacridone / Nickel Complex Azo / Synthetic Iron Oxide / Chlorinated Copper Phthalocyanine	Transparent	ASTM 1	Excellent
Permanent Violet Dark	Mixture	PR122 / PB60	Quinacridone / Indanthrone	Transparent		1 Excellent
Phthalo Blue (Green Shade)	Organometallic	PB15:3	Copper Phthalocyanine	Transparent		1 Excellent
Phthalo Blue (Red Shade)	Organometallic	PB15:0	Copper Phthalocyanine	Transparent		1 Excellent
Phthalo Green (Blue Shade)	Organometallic	PG7	Chlorinated Copper Phthalocyanine	Transparent		1 Excellent
Phthalo Green (Yellow Shade)	Organometallic	PG36	Brominated and Chlorinated Copper Phthalocyanine	Transparent		1 Excellent
Pyrrole Orange	Synthetic Organic	PO73	Diketopyrrole-pyrrole	Semi-Opaque		1 Excellent
Pyrrole Red	Synthetic Organic	PR254	Diketopyrrole-pyrrole	Semi-Opaque		1 Excellent
Pyrrole Red Dark	Organic	PR264	Diketopyrrole-pyrrole	Semi-Opaque		1 Excellent
Pyrrole Red Light	Synthetic Organic	PR255	Diketopyrrole-pyrrole	Semi-Opaque		1 Excellent
Quinacridone / Nickel Azo Gold	Synthetic Organic (Mixture)	PY150 / PO48	Nickel Complex Azo / Quinacridone	Transparent		1 Excellent
Quinacridone Magenta	Synthetic Organic	PR122	Quinacridone	Transparent		1 Excellent
Quinacridone Red	Synthetic Organic	PV19	Quinacridone	Transparent		1 Excellent

Quinacridone Violet	Synthetic Organic	PV19	Quinacridone	Transparent		1 Excellent
Raw Sienna	Natural Inorganic	PY43	Natural Hydrated Iron Oxide	Semi- Opaque		1 Excellent
Raw Umber	Natural Inorganic	PBr7	Natural Iron Oxide containing Manganese	Opaque		1 Excellent
Red Oxide	Synthetic Inorganic	PR101	Synthetic Iron Oxide	Opaque		1 Excellent
Teal	Mixture	PW6 / PG7 / PB15:3	Titanium Dioxide Rutile / Chlorinated Copper Phthalocyanine / Copper Phthalocyanine	Opaque		1 Excellent
Titan Buff	Synthetic Inorganic	PW6:1 / PW6	Titanium Dioxide Rutile / Titanium Dioxide Rutile	Opaque		1 Excellent
Titanate Yellow	Synthetic Inorganic	PY53	Nickel Antimony Titanate	Semi- Opaque		1 Excellent
Titanium White	Synthetic Inorganic	PW6	Titanium Dioxide Rutile	Opaque		1 Excellent
Transparent Brown Iron Oxide	Inorganic	PR101 / PBk7	Synthetic Iron Oxide / Nearly Pure Amorphous Carbon	Transparent		1 Excellent
Transparent Red Iron Oxide	Synthetic Inorganic	PR101	Synthetic Iron Oxide	Transparent		1 Excellent
Transparent Yellow Iron Oxide	Synthetic Inorganic	PY42	Synthetic Hydrated Iron Oxide	Transparent		1 Excellent
Turquoise (Phthalo)	Mixture	PG7 / PB15:3	Chlorinated Copper Phthalocyanine / Copper Phthalocyanine	Transparent		1 Excellent
Ultramarine Blue	Synthetic Inorganic	PB29	Polysulfide of Sodium-Alumino-Silicate	Semi- Transparent		<sup>1</sup> Not for Exterior Use
Ultramarine Violet	Synthetic Inorganic	PV15	Polysulfide of Sodium-Alumino-Silicate	Transparent		<sup>1</sup> Not for Exterior Use
Vat Orange	Synthetic Organic	PO43	Perinone Orange	Semi- Opaque		1 Excellent
Violet Oxide	Synthetic Inorganic	PR101	Synthetic Iron Oxide	Opaque		1 Excellent
Yellow Ochre	Natural Inorganic	PY43	Natural Hydrated Iron Oxide	Semi- Opaque		1 Excellent
Yellow Oxide	Synthetic Inorganic	PY42	Synthetic Hydrated Iron Oxide	Semi- Opaque		1 Excellent
Zinc White	Synthetic Inorganic	PW4	Zinc Oxide	Semi- Transparent		1 Excellent
Alizarin Crimson Hue	Synthetic Organic (Mixture)	PR122 / PY150 / PG7	Quinacridone / Nickel Complex Azo / Chlorinated Copper Phthalocyanine	Transparent	ASTM 1	Excellent
Primary Cyan	Mixture	PB15:3 / PW6	Copper Phthalocyanine / Titanium Dioxide Rutile	Opaque		1 Excellent
Primary Magenta	Synthetic Organic	PV19	Quinacridone	Semi- Opaque		1 Excellent

Primary Yellow	Synthetic Organic	PY175 / PW6 / PY74	Benzimidazolone Yellow H6G / Titanium Dioxide Rutile / Arylide Yellow 5GX	Semi-Transparent		1 Excellent
Cadmium Red Medium Hue	Synthetic Organic (Mixture)	PR112 / PR5	Naphthol AS-D / Naphthol ITR	Semi-Transparent		2 Very Good
Cadmium Yellow Medium Hue	Synthetic Organic (Mixture)	PY74 / PY175 / PY83(HR70)	Arylide Yellow 5GX / Benzimidazolone Yellow H6G / Diarylide Yellow HR70	Semi-Opaque		1 Excellent
Cobalt Blue Hue	Mixture	PB29 / PW6 / PB15:3	Polysulfide of Sodium-Alumino-Silicate / Titanium Dioxide Rutile / Copper Phthalocyanine	Semi-Opaque		1 Excellent
Light Green (Blue Shade)	Mixture	PY175 / PW6 / PG7	Benzimidazolone Yellow H6G / Titanium Dioxide Rutile / Chlorinated Copper Phthalocyanine	Semi-Transparent		1 Excellent
Light Green (Yellow Shade)	Mixture	PY175 / PW6 / PG7	Benzimidazolone Yellow H6G / Titanium Dioxide Rutile / Chlorinated Copper Phthalocyanine	Semi-Opaque		1 Excellent
Light Magenta	Mixture	PW6 / PR112 / PO73	Titanium Dioxide Rutile / Naphthol AS-D / Diketopyrrole-pyrrole	Opaque		2 Very Good
Light Turquoise (Phthalo)	Mixture	PW6 / PG7 / PB15:3	Titanium Dioxide Rutile / Chlorinated Copper Phthalocyanine / Copper Phthalocyanine	Opaque		1 Excellent
Light Ultramarine Blue	Mixture	PW6 / PB29	Titanium Dioxide Rutile / Polysulfide of Sodium-Alumino-Silicate	Opaque		1 Excellent
Light Violet	Mixture	PW6 / PV23	Titanium Dioxide Rutile / Carbazole Dioxazine	Opaque		2 Very Good
Medium Magenta	Mixture	PW6 / PR122	Titanium Dioxide Rutile / Quinacridone	Opaque		1 Excellent
Medium Violet	Mixture	PW6 / PR122 / PV23 / PBr7	Titanium Dioxide Rutile / Quinacridone / Carbazole Dioxazine / Calcined Natural Iron Oxide containing Manganese	Opaque		2 Very Good
Hookers Green Hue	Synthetic Organic (Mixture)	PY150 / PB60 / PR122	Nickel Complex Azo / Indanthrone / Quinacridone	Semi-Transparent		1 Excellent
India Yellow Hue	Synthetic Organic (Mixture)	PY150 / PY175 / PR122	Nickel Complex Azo / Benzimidazolone Yellow H6G / Quinacridone	Transparent	ASTM 1	Excellent
Manganese Blue Hue	Mixture	PW6 / PB15:3 / PG7	Titanium Dioxide Rutile / Copper Phthalocyanine / Chlorinated Copper Phthalocyanine	Semi-Transparent		1 Excellent
Naples Yellow Hue	Mixture	PW6:1 / PW6 / PY42 / PY83(HR70)	Titanium Dioxide Rutile / Titanium Dioxide Rutile / Synthetic Hydrated Iron Oxide / Diarylide Yellow HR70	Opaque		1 Excellent

Prussian Blue Hue	Mixture	PBk9 / PB15:0 / PV23	Amorphous Carbon produced by charring animal bones / Copper Phthalocyanine / Carbazole Dioxazine	Semi-Transparent		2 Very Good
Sap Green Hue	Mixture	PR101 / PY150 / PG36 / PBk7	Synthetic Iron Oxide / Nickel Complex Azo / Brominated and Chlorinated Copper Phthalocyanine / Nearly Pure Amorphous Carbon	Semi-Transparent		1 Excellent
Van Dyke Brown Hue	Mixture	PR101 / PBk7	Synthetic Iron Oxide / Nearly Pure Amorphous Carbon	Semi-Opaque		1 Excellent
Azurite Hue	Mixture	PBr7 / PW6 / PB15:0	Natural Iron Oxide containing Manganese / Titanium Dioxide Rutile / Copper Phthalocyanine	Semi-Transparent		1 Excellent
Cobalt Violet Hue	Mixture	PV19 / PW6 / PR122 / PV23	Quinacridone / Titanium Dioxide Rutile / Quinacridone / Carbazole Dioxazine	Semi-Opaque		2 Very Good
Smalt Hue	Mixture	PB29 / PV23 / PBk7	Polysulfide of Sodium-Alumino-Silicate / Carbazole Dioxazine / Nearly Pure Amorphous Carbon	Transparent		2 Very Good
Terre Verte Hue	Mixture	PG17 / PBr7 / PBk9 / PY42 / PG36	Anhydrous Chromium Sesquioxide / Natural Iron Oxide containing Manganese / Amorphous Carbon produced by charring animal bones / Synthetic Hydrated Iron Oxide / Brominated and Chlorinated Copper Phthalocyanine	Transparent		1 Excellent
Viridian Green Hue	Mixture	PW6 / PB15:3 / PBr7 / PY150	Titanium Dioxide Rutile / Copper Phthalocyanine / Natural Iron Oxide containing Manganese / Nickel Complex Azo	Semi-Transparent		1 Excellent
N2 Neutral Gray	Mixture	PBk9 / PBr7 / PW6	Amorphous Carbon produced by charring animal bones / Calcined Natural Iron Oxide / Titanium Dioxide Rutile	Semi-Opaque	ASTM 1	Very Good
N3 Neutral Gray	Mixture	PBk9 / PW6 / PBr7	Amorphous Carbon produced by charring animal bones / Titanium Dioxide Rutile / Calcined Natural Iron Oxide	Semi-Opaque	ASTM 1	Excellent

N4 Neutral Gray	Mixture	PBk9 / PW6 / PBr7	Amorphous Carbon produced by charring animal bones / Titanium Dioxide Rutile / Calcined Natural Iron Oxide	Semi- Opaque	ASTM 1	Excellent
N5 Neutral Gray	Mixture	PW6 / PBk9 / PBr7	Titanium Dioxide Rutile / Amorphous Carbon produced by charring animal bones / Calcined Natural Iron Oxide	Opaque	ASTM 1	Excellent
N6 Neutral Gray	Mixture	PW6 / PBk9 / PBr7	Titanium Dioxide Rutile / Amorphous Carbon produced by charring animal bones / Calcined Natural Iron Oxide	Opaque	ASTM 1	Excellent
N7 Neutral Gray	Mixture	PW6 / PBk9 / PBr7	Titanium Dioxide Rutile / Amorphous Carbon produced by charring animal bones / Calcined Natural Iron Oxide	Opaque	ASTM 1	Excellent
N8 Neutral Gray	Mixture	PW6 / PBk9 / PBr7	Titanium Dioxide Rutile / Amorphous Carbon produced by charring animal bones / Calcined Natural Iron Oxide	Opaque	ASTM 1	Excellent
Titan Violet Pale	Mixture	PW6 / PR101	Titanium Dioxide Rutile / Synthetic Iron Oxide	Opaque		1 Excellent
Titan Mars Pale	Mixture	PW6 / PBr6	Titanium Dioxide Rutile / Mixture of Synthetic Iron Oxides	Semi- Opaque		1 Excellent
Light Orange	Mixture	PW6 / PY184 / PO73	Titanium Dioxide Rutile / Bismuth Vanadate / Diketopyrrole-pyrrole	Opaque		1 Excellent
Cobalt Teal	Synthetic Inorganic	PG50	Oxides of Cobalt and Titanium	Semi- Opaque		1 Excellent
Light Phthalo Green	Mixture	PW6 / PG36	Titanium Dioxide Rutile / Brominated and Chlorinated Copper Phthalocyanine	Opaque		1 Excellent
Titan Green Pale	Mixture	PW6 / PY42 / PBr7 / PG7	Titanium Dioxide Rutile / Synthetic Hydrated Iron Oxide / Natural Iron Oxide containing Manganese / Chlorinated Copper Phthalocyanine	Opaque		1 Excellent
Benzimidazolone Yellow Medium	Synthetic Organic	PY154	Benzimidazolone Yellow H3G	Semi- Transparent		1 Excellent
Light Phthalo Blue	Mixture	PW6 / PB15:3	Titanium Dioxide Rutile / Copper Phthalocyanine	Opaque		1 Excellent
Light Bismuth Yellow	Mixture	PW6 / PY184	Titanium Dioxide Rutile / Bismuth Vanadate	Semi- Opaque		1 Excellent
Benzimidazolone Yellow Light	Synthetic Organic	PY175	Benzimidazolone Yellow H6G	Transparent		1 Excellent