

M. GRAHAM & Co.® *Professional Watercolor*

Number	Description	Composition	LF	SD/ST	Opacity	New
33-010	Alizarin Crimson	1,2 Dihydroxyanthraquinone on Alumina Base (PR 83)	III	ST	T	
33-012	Anthraquinone Blue	Anthraquinone Blue (PB 60)	I	ST	T	✓
33-016	Azo Green	Azomethine Copper Complex (PY 129)	I	ST	T	✓
33-017	Azo Orange	Benzimidazolone Orange (PO 62)	II	ST	T	✓
33-018	Azo Yellow	Benzimidazolone Yellow (PY 151)	I	ST	ST	
33-019	Bismuth Yellow	Bismuth Vanadium Oxide (PY 184)	I	SD	O	✓
33-020	Burnt Sienna	Calcined Natural Iron Oxide (PBr 7)	I	SD	ST	
33-030	Burnt Umber	Calcined Natural Iron Oxide containing Manganese (PBr 7)	I	SD	SO	
33-038	Cadmium Orange	Cadmium Seleno-Sulfide (PO 20)	I	SD	O	
33-040	Cadmium Red	Cadmium Seleno-Sulfide (PR 108)	I	SD	O	
33-045	Cadmium Red Dp	Cadmium Seleno-Sulfide (PR 108)	I	SD	O	✓
33-050	Cadmium Red Lt	Cadmium Seleno-Sulfide (PR 108)	I	SD	O	
33-060	Cadmium Yellow	Cadmium Zinc Sulfide (PY 35)	I	SD	O	
33-063	Cadmium Yellow Dp	Cadmium Zinc Sulfide (PY 35)	I	SD	O	✓
33-070	Cadmium Yellow Lt	Cadmium Zinc Sulfide (PY 35)	I	SD	O	
33-080	Cerulean Blue	Oxides of Cobalt and Chromium (PB 36)	I	SD	O	
33-081	Cerulean Blue Deep	Oxides of Cobalt and Chromium (PB 36)	I	SD	O	✓
33-085	Chinese White	Titanium Dioxide (PW 6)	I	SD	O	
33-090	Cobalt Blue	Oxides of Cobalt and Aluminium (PB 28)	I	SD	ST	
33-095	Cobalt Green	Cobalt Titanate (PG 50)	I	SD	O	✓
33-097	Cobalt Teal	Cobalt Aluminate (PB 28)	I	SD	O	✓
33-099	Cobalt Violet	Cobalt Phosphate (PV 14)	I	SD	O	✓
33-100	Dioxazine Purple	Carbazole Dioxazine (PV 37)	II	ST	T	
33-105	Gamboge	Benzimidazolone Yellow (PY 151) & Benzimidazolone Orange (PO 62)	I	ST	T	
33-106	Hansa Yellow Dp	Arylide Yellow (PY 97)	II	ST	T	✓
33-107	Hansa Yellow	Arylide Yellow (PY 3)	II	ST	T	✓
33-108	Hooker's Green	Chlorinated Copper Phthalocyanine & Isoindolinone Yellow (PG 7) (PY 110)	I	ST	T	
33-109	Indian Yellow	Isoindolinone Yellow (PY 110)	I	ST	T	✓
33-110	Ivory Black	Amorphous Carbon (PBk 9)	I	SD	O	
33-112	Lamp Black	Nearly Pure Amorphous Carbon (PBk 6)	I	SD	SO	
33-113	Maroon Perylene	Perylene (PR 179)	I	ST	T	✓
33-114	Manganese Blue Hue	Copper Phthalocyanine & Zinc Oxide (PB 15:3) (PW 4)	II	SD	T	✓
33-116	Mineral Violet	Manganese Ammonium Pyro Phosphate (PV 16)	I	SD	O	✓
33-120	Naphthol Red	Naphthol AS-D (PR 112)	II	ST	SO	
33-121	Naples Yellow	Chrominum Titanium Oxide (PBr 24)	I	SD	O	✓

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33-122	Neutral Tint	Quinacridone Violet & Chlorinated Copper Phthalocyanine (PV 19) (PG 7)	I	ST	T	
33-123	Nickel Azo Yellow	Nickle Azo Complex (PY 150)	I	ST	T	✓
33-124	Nickel Quinacridone Gold	Quinacridone Orange & Nickle Azo Complex (PO 48) (PY 150)	I	ST	T	✓
33-125	Olive Green	Azomethine Complex, Chlorinated Copper Phthalocyanine, Isoindolinone Yellow & Amorphous Carbon (PY 129) (PG 7) (PY 110) (PBk9)	I	ST	T	✓
33-128	Payne's Gray	Amorphous Carbon & Silicates of Sodium/Aluminum with Sulphur (PBk9) (PB 29)	I	SD	SO	
33-129	Permanent Alizarin Crimson	Diketo Pyrrolopyrrol (PR 264)	II	ST	T	✓
33-130	Permanent Green Lt	Chlorinated Copper Phthalocyanine & Benzimidazolone Yellow (PG 7) (PY 151)	I	ST	SO	
33-131	Permanent Green Pale	Chlorinated Copper Phthalocyanine & Arylide Yellow (PG 7) (PY 3)	II	ST	T	✓
33-140	Phthalocyanine Blue	Copper Phthalocyanine (PB 15:3)	I	ST	T	
33-141	Phthalocyanine Blue Red Shade	Copper Phthalocyanine (PB 15:0)	I	ST	T	✓
33-150	Phthalocyanine Green	Chlorinated Copper Phthalocyanine (PG 7)	I	ST	T	
33-151	Phthalocyanine Green Yellow Shade	Brominated Copper Phthalocyanine (PG 36)	I	ST	T	✓
33-153	Prussian Blue 15ml	Ferriammonium Ferrocyanide (PB 27)	I*	ST	T	
33-154	Pyrryl Red	Diketo Pyrrolopyrrol (PR 254)	I	ST	T	✓
33-155	Quinacridone Red	Quinacridone Red (PR 209)	I	ST	T	
33-156	Quinacridone Rose	Quinacridone Violet (PV 19)	I	ST	T	
33-157	Quinacridone Rust	Quinacridone Orange (PO 48)	I	ST	T	✓
33-158	Quinacridone Violet	Quinacridone Violet (PV 19)	I	ST	T	
33-160	Raw Sienna	Natural Iron Oxide (PBr 7)	I	SD	ST	
33-170	Raw Umber	Natural Iron Oxide containing Manganese (PBr 7)	I	SD	SO	
33-174	Sap Green	Chlorinated Copper Phthalocyanine & Isoindolinone Yellow (PG 7) (PY 110)	I	ST	T	
33-176	Scarlet Pyrrol	Diketo Pyrrolopyrrol (PO 73)	I	ST	T	✓
33-178	Sepia	Calcined Natural Iron Oxide & Nearly Pure Amorphous Carbon (PBr 7) (PBk 6)	I	SD	T	
33-179	Terra Rosa	Synthetic Iron Oxide (PR 101)	I	SD	O	✓
33-180	Titanium White Opaque	Titanium Dioxide (PW 6)	I	SD	O	✓
33-186	Trans Orange Iron Oxide	Synthetic Iron Oxide (PY 42) (PR 101)	I	SD	T	✓
33-187	Trans Red Iron Oxide	Synthetic Iron Oxide (PR 101)	I	SD	T	✓
33-188	Trans Yellow Iron Oxide	Synthetic Iron Oxide (PY 42)	I	SD	T	✓
33-189	Turquoise	Copper Phthalocyanine & Chlorinated Copper Phthalocyanine (PB 15:3) (PG 7)	I	ST	T	✓
33-190	Ultramarine Blue	Silicate of Sodium & Aluminum with Sulfur (PB 29)	I	SD	T	
33-192	Ultramarine Pink	Silicate of Sodium & Aluminum with Sulfur (PR 258)	I	SD	T	✓
33-193	Ultramarine Violet	Silicate of Sodium & Aluminum with Sulfur (PB 29) (PV 15)	I	SD	T	
33-194	Ultramarine Violet Deep	Silicate of Sodium & Aluminum with Sulfur (PV 15)	I	SD	T	✓
33-195	Viridian	Hydrous Chromium Sesquioxide (PG 18)	I	SD	T	
33-200	Yellow Ochre	Natural Hydrated Iron Oxide (PY 43)	I	SD	O	

LF = Light Fastness Key: I Excellent II Very Good III Acceptable (Pale tints may fade in direct sunlight)

ST = Staining SD = Sedimentary

Opacity: T = Transparent ST = Semi Transparent SO = Semi Opaque O = Opaque

*Traditionally considered permanent, actual lightfastness is dependent on a wide variety of factors.

All colors conform to ASTM D4236 health labeling standard.

MSDS are available by contacting M. Graham at: