

	Name, Pigment	Hue angle	Palette	Trans.	Stain	Gran.	Lightfast
1 LIGHT YELLOW							
1	WN Winsor Yellow, PY 154	87	1	med-high	high	non	high
2	DS Hansa Yellow Med., PY97	85	6	low-med	med-high	non	high
3	DS Cadmium Yellow Med., PY53, PY151, PY83	80?	6	med-high	low	non	high
4	WN New Gamboge, PR150, PR209	78?	1	med-high	non	non	med-high
2 DEEP YELLOW							
1	DS Buff Titanium, PW61	75	7	low	non	non	med-high
2	WN Raw Sienna, PY62, PR101	73	4	med-high	non	non	high
3	WN Yellow Ochre, PY43	69	4	med-high	low-med	non	high
4	DS Monte Amiata Natural Sienna, PBr7	66	5	med-high	low-med	low	high
5	WN Indian Yellow, PO62, PY139	66	5	low-med	low-med	non	med-high
6	WN Raw Umber	64	4	med-high	low-med	med-high	high
7	DS Quinacridone Gold, PO48, PY150	61	5	high	low	high	high
8	DS Raw Umber, PBr7	59	5	low-med	med-high	low	high
9	WN Gold Ochre, PY42	57	5	low-med	med-high	non	high
10	DS Goethite Brown Ochre, PY43		5	med-high	low	high	high
3 RED ORANGE							
1	WN Winsor Orange, PO62	55	1	low-med	high	non	med-high
2	WN Burnt Umber, PBr7, PR101, PY42	50	4	med-high	high	non	med-high
3	DS Pyrrol Orange, PO73	46	1	med-high	high	non	med-high
4	WN Burnt Sienna, PR101	45	4	high	med-high	low	med-high
5	WN Cadmium Scarlet, PR108	40	1	low-med	med-high	low	high
6	WN Venetian Red, PR101	38	4	non	high	non	high
4 MIDDLE RED							
1	DS Cadmium Red Med. Hue, PR53, PR254		7	low	low	non	high
2	WN Perylene Maroon, PR139	27	1	high	high	non	high
3	WN Quinacridone Magenta, PR122	3	2	med-high	low-med	non	med-high
4	WN Opera Rose, PR122	357	2	med-high	high	low	high
5 MAGENTA							
1	WN Cobalt Violet, PV14	328	2	low-med	non	high	high
6 PURPLE							

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1	DS Quinacridone Purple, PV55		6	high	med-high	non	high
2	WN Ultramarine Violet, PV15	303	2	high	low-med	low-med	high
7 BLUE VIOLET							
1	DS French Ultramarine, PB29	289	6	high	med-high	low-med	med-high
2	DS Ultramarine Blue, PB29	291	2	high	med-high	non	med-high
3	WN Indanthrene Blue, PB60	286	2	high	med-high	low	med-high
8 MIDDLE BLUE							
1	WN Payne's Gray, PB15, PBk6, PV19	275	4	low-med	high	non	high
2	DS Prussian Blue, PB37	274	2	low-med	med-high	low-med	high
3	DS Phthalo Blue, PB15:3	267	3	high	high	low	high
4	WN Cerulean Blue, PB35	234	3	low-med	low-med	low-med	med-high
9 CYAN							
1	WN Cobalt Turquoise Light, PG50	198	3	low-med	med-high	low	high
10 BLUE GREEN							
1	WN Cobalt Green Deep, PG26	180?	5	low	low	high	high
2	WN Winsor Green BS, PG7	178	3	med-high	high	low	high
11 GREEN							
1	DS Phthalo Green YS, PG36	161	3	high	high	low	med-high
12 YELLOW GREEN							
1	Ds Phthalo Yellow Green, PG7, PY3	135	3	low-med	med-high	med-high	med-high
2	WN Permanent Sap Green, PG36, PY110	126	3	med-high	high	low	high