

Number	Name	tube	heavy wash	light wash	Opacity	Granulating, Staining	Lightfastness	Pigments	Tube	R	G	B	L*	a*	b*	Wash	R	G	B	L*	a*	b*
7000100	Nickel yellow				SO		I	PY53	239	213	81	87.0	-6.2	64.0	248	230	110	92.2	-8.0	57.6		
7000115	Bismuth vanadate yellow				ST	s	(I)	PY184	255	221	0	91.4	-4.7	100.4	255	228	0	92.8	-8.4	90.8		
7000120	Nickel azo yellow				T	S	I	PY150	205	126	19	62.4	24.3	65.3	235	168	0	75.8	14.0	79.4		
7000160	Quinacridone gold deep				T	S	II	PO48	63	24	22	14.9	22.0	11.8	225	135	81	66.8	33.7	45.2		
7000185	Transparent pyrrole orange				T	S	(II)	PO71	189	26	0	43.5	66.6	61.0	253	129	67	70.0	45.3	58.0		
7000200	Pyrrole red light				SO	s	I	PR255	215	54	40	51.4	68.1	51.0	248	180	175	80.4	27.5	14.2		
7000210	Pyrrole red medium				SO	S	(I)	PR254	172	0	0	37.6	69.1	57.8	227	159	164	73.0	31.0	9.7		
7000225	Pyrrole red deep				SO	S	(II)	PR264	146	23	34	33.7	57.8	31.7	214	135	148	65.7	38.5	8.4		
7000230	Permanent scarlet				ST	S	(II)	PR168	185	36	32	43.4	64.0	45.4	252	162	159	76.8	35.8	18.9		
7000240	Permanent alizarin crimson				T	S	(II)	PR177	166	44	54	40.3	58.6	28.1	227	163	180	74.1	31.4	2.4		
7000265	Quinacridone magenta				T	S	(I)	PR122	121	35	58	29.8	46.4	11.0	219	135	190	67.0	45.9	-12.4		
7000280	Quinacridone violet				T	S	I	PV19	116	40	58	29.6	42.1	10.2	207	184	211	77.1	17.2	-10.0		
7000290	Ultramarine violet				ST	G, s	I	PV15	68	57	114	26.4	19.5	-31.9	162	138	203	60.9	22.5	-29.8		
7000295	Dioxazine purple				ST	S	(I)	PV23	39	34	38	13.8	3.5	-1.2	106	95	161	42.4	22.0	-35.1		
7000310	Ultramarine blue				ST	G, s	I	PB29	17	66	176	27.3	32.7	-68.8	157	189	235	73.9	1.2	-28.9		
7000320	Cobalt blue				SO	G, s	I	PB28	0	104	204	37.6	16.5	-68.9	159	203	239	78.1	-4.1	-24.9		
7000330	Cerulean blue, chromium				SO	G	I	PB36:1	0	109	160	37.8	-9.8	-44.6	176	213	231	81.8	-6.8	-15.3		
7000345	Phthalo blue (green shade)				ST	S	II	PB15:3	4	42	85	14.5	11.3	-34.6	0	146	206	50.7	-17.4	-51.2		
7000375	Phthalo green (blue shade)				T	S	I	PG7	0	72	55	24.2	-26.4	-1.1	85	205	175	73.8	-42.1	-0.4		
7000380	Viridian green				ST	G, s	I	PG18	0	119	88	41.3	-45.0	2.2	166	217	202	82.2	-19.8	-0.4		
7000390	Cobalt green				SO	G	(I)	PG26	46	82	69	31.2	-16.7	1.7	216	224	218	88.2	-3.6	1.5		
7000400	Sap green				T	S	I	PG36, PR101, PY150	30	38	29	13.9	-6.1	4.0	191	189	113	76.1	-11.9	37.7		
7000405	Terre verte				T	G	I	PG23	154	171	127	67.9	-15.8	19.4	218	226	205	88.9	-7.1	9.0		
7000425	Green gold				T	s	(I)	PY129	97	78	50	35.2	3.3	20.5	235	205	81	84.6	-4.2	63.5		
7000430	Titan buff				ST		I	PW6:1	202	181	152	75.4	4.2	17.8	238	227	203	90.9	0.6	13.0		
7000445	Transparent yellow oxide				T	G, S	I	PY42	121	61	25	34.6	24.0	35.7	232	166	77	75.1	15.5	56.1		
7000450	Raw sienna (natural)				SO		I	PY43	185	113	59	56.4	24.7	44.0	245	204	155	85.7	8.2	31.2		
7000470	Burnt sienna (natural)				SO	G, s	I	PBr7	105	67	60	33.3	17.7	12.2	227	180	152	77.8	14.9	21.9		
7000480	Burnt umber (natural)				SO	G, s	I	PBr7	80	59	50	27.2	9.0	9.7	202	169	146	72.3	9.8	17.3		
7000485	Raw umber (natural)				SO	G, s	I	PBr7	66	62	59	26.2	1.3	2.5	181	161	141	68.0	4.3	13.7		
7000505	Ivory black				O	G, S	I	PBk9	49	49	50	20.3	0.1	-0.5	142	138	134	57.6	1.0	2.8		
7000525	Ardoise grey				T	G	I	PBk19	95	87	78	37.5	2.4	6.7	204	197	188	79.9	1.2	5.5		
7000535	Titanium white				SO		I	PW6	247	246	244	96.8	0.0	1.2	245	244	240	96.0	0.0	1.7		
7000545	Iridescent pearl (fine)				ST	G		TiO2 on mica	215	207	197	83.6	1.5	5.9	220	214	206	86.0	1.2	4.9		
						s = semi; S = fully staining																
	Colours scanned and pasted in from patch samples. Colour values measured using ColorMunki®.																					
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Number	Name				Opacity	Granulating, Staining	Lightfastness	Pigments	Tube	R	G	B	L*	a*	b*	Wash	R	G	B	L*	a*	b*	
7000525	Ardoise grey				T	G	I	PBk19	95	87	78	37.5	2.4	6.7	204	197	188	79.9	1.2	5.5			
7000115	Bismuth vanadate yellow				ST	s	(I)	PY184	255	221	0	91.4	-4.7	100.4	255	228	0	92.8	-8.4	90.8			
7000470	Burnt sienna (natural)				SO	G, s	I	PBr7	105	67	60	33.3	17.7	12.2	227	180	152	77.8	14.9	21.9			
7000480	Burnt umber (natural)				SO	G, s	I	PBr7	80	59	50	27.2	9.0	9.7	202	169	146	72.3	9.8	17.3			
7000330	Cerulean blue, chromium				SO	G	I	PB36:1	0	109	160	37.8	-9.8	-44.6	176	213	231	81.8	-6.8	-15.3			
7000320	Cobalt blue				SO	G, s	I	PB28	0	104	204	37.6	16.5	-68.9	159	203	239	78.1	-4.1	-24.9			
7000390	Cobalt green				SO	G	(I)	PG26	46	82	69	31.2	-16.7	1.7	216	224	218	88.2	-3.6	1.5			
7000295	Dioxazine purple				ST	S	(I)	PV23	39	34	38	13.8	3.5	-1.2	106	95	161	42.4	22.0	-35.1			
7000425	Green gold				T	s	(I)	PY129	97	78	50	35.2	3.3	20.5	235	205	81	84.6	-4.2	63.5			
7000545	Iridescent pearl (fine)				ST	G		TiO2 on mica	215	207	197	83.6	1.5	5.9	220	214	206	86.0	1.2	4.9			
7000505	Ivory black				O	G, S	I	PBk9	49	49	50	20.3	0.1	-0.5	142	138	134	57.6	1.0	2.8			
7000120	Nickel azo yellow				T	S	I	PY150	205	126	19	62.4	24.3	65.3	235	168	0	75.8	14.0	79.4			
7000100	Nickel yellow				SO		I	PY53	239	213	81	87.0	-6.2	64.0	248	230	110	92.2	-8.0	57.6			
7000240	Permanent alizarin crimson				T	S	(II)	PR177	166	44	54	40.3	58.6	28.1	227	163	180	74.1	31.4	2.4			
7000230	Permanent scarlet				ST	S	(II)	PR168	185	36	32	43.4	64.0	45.4	252	162	159	76.8	35.8	18.9			
7000345	Phthalo blue (green shade)				ST	S	II	PB15:3	4	42	85	14.5	11.3	-34.6	0	146	206	50.7	-17.4	-51.2			
7000375	Phthalo green (blue shade)				T	S	I	PG7	0	72	55	24.2	-26.4	-1.1	85	205	175	73.8	-42.1	-0.4			
7000225	Pyrrole red deep				SO	S	(II)	PR264	146	23	34	33.7	57.8	31.7	214	135	148	65.7	38.5	8.4			
7000200	Pyrrole red light				SO	s	I	PR255	215	54	40	51.4	68.1	51.0	248	180	175	80.4	27.5	14.2			
7000210	Pyrrole red medium				SO	S	(I)	PR254	172	0	0	37.6	69.1	57.8	227	159	164	73.0	31.0	9.7			
7000160	Quinacridone gold deep				T	S	II	PO48	63	24	22	14.9	22.0	11.8	225	135	81	66.8	33.7	45.2			
7000265	Quinacridone magenta				T	S	(I)	PR122	121	35	58	29.8	46.4	11.0	219	135	190	67.0	45.9	-12.4			
7000280	Quinacridone violet				T	S	I	PV19	116	40	58	29.6	42.1	10.2	207	184	211	77.1	17.2	-10.0			
7000450	Raw sienna (natural)				SO		I	PY43	185	113	59	56.4	24.7	44.0	245	204	155	85.7	8.2	31.2			
7000485	Raw umber (natural)				SO	G, s	I	PBr7	66	62	59	26.2	1.3	2.5	181	161	141	68.0	4.3	13.7			
7000400	Sap green				T	S	I	PG36, PR101, PY150	30	38	29	13.9	-6.1	4.0	191	189	113	76.1	-11.9	37.7			
7000405	Terre verte				T	G	I	PG23	154	171	127	67.9	-15.8	19.4	218	226	205	88.9	-7.1	9.0			
7000430	Titan buff				ST		I	PW6:1	202	181	152	75.4	4.2	17.8	238	227	203	90.9	0.6	13.0			
7000535	Titanium white				SO		I	PW6	247	246	244	96.8	0.0	1.2	245	244	240	96.0	0.0	1.7			
7000185	Transparent pyrrole orange				T	S	(II)	PO71	189	26	0	43.5	66.6	61.0	253	129	67	70.0	45.3	58.0			
7000445	Transparent yellow oxide				T	G, S	I	PY42	121	61	25	34.6	24.0	35.7	232	166	77	75.1	15.5	56.1			
7000310	Ultramarine blue				ST	G, s	I	PB29	17	66	176	27.3	32.7	-68.8	157	189	235	73.9	1.2	-28.9			
7000290	Ultramarine violet				ST	G, s	I	PV15	68	57	114	26.4	19.5	-31.9	162	138	203	60.9	22.5	-29.8			
7000380	Viridian green				ST	G, s	I	PG18	0	119	88	41.3	-45.0	2.2	166	217	202	82.2	-19.8	-0.4			
						s = semi; S = fully staining																	
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Number	Name				Opacity	Granulating, Staining	Lightfastness	Pigments	Tube	R	G	B	L*	a*	b*	Wash	R	G	B	L*	a*	b*				
7000505	Ivory black				O	G, S	I	PBk9		49	49	50	20.3	0.1	-0.5		142	138	134	57.6	1.0	2.8				
7000100	Nickel yellow				SO		I	PY53		239	213	81	87.0	-6.2	64.0		248	230	110	92.2	-8.0	57.6				
7000200	Pyrrole red light				SO	s	I	PR255		215	54	40	51.4	68.1	51.0		248	180	175	80.4	27.5	14.2				
7000210	Pyrrole red medium				SO	S	(I)	PR254		172	0	0	37.6	69.1	57.8		227	159	164	73.0	31.0	9.7				
7000225	Pyrrole red deep				SO	S	(II)	PR264		146	23	34	33.7	57.8	31.7		214	135	148	65.7	38.5	8.4				
7000320	Cobalt blue				SO	G, s	I	PB28		0	104	204	37.6	16.5	-68.9		159	203	239	78.1	-4.1	-24.9				
7000330	Cerulean blue, chromium				SO	G	I	PB36:1		0	109	160	37.8	-9.8	-44.6		176	213	231	81.8	-6.8	-15.3				
7000390	Cobalt green				SO	G	(I)	PG26		46	82	69	31.2	-16.7	1.7		216	224	218	88.2	-3.6	1.5				
7000450	Raw sienna (natural)				SO		I	PY43		185	113	59	56.4	24.7	44.0		245	204	155	85.7	8.2	31.2				
7000470	Burnt sienna (natural)				SO	G, s	I	PBr7		105	67	60	33.3	17.7	12.2		227	180	152	77.8	14.9	21.9				
7000480	Burnt umber (natural)				SO	G, s	I	PBr7		80	59	50	27.2	9.0	9.7		202	169	146	72.3	9.8	17.3				
7000485	Raw umber (natural)				SO	G, s	I	PBr7		66	62	59	26.2	1.3	2.5		181	161	141	68.0	4.3	13.7				
7000535	Titanium white				SO		I	PW6		247	246	244	96.8	0.0	1.2		245	244	240	96.0	0.0	1.7				
7000115	Bismuth vanadate yellow				ST	s	(I)	PY184		255	221	0	91.4	-4.7	100.4		255	228	0	92.8	-8.4	90.8				
7000230	Permanent scarlet				ST	S	(II)	PR168		185	36	32	43.4	64.0	45.4		252	162	159	76.8	35.8	18.9				
7000290	Ultramarine violet				ST	G, s	I	PV15		68	57	114	26.4	19.5	-31.9		162	138	203	60.9	22.5	-29.8				
7000295	Dioxazine purple				ST	S	(I)	PV23		39	34	38	13.8	3.5	-1.2		106	95	161	42.4	22.0	-35.1				
7000310	Ultramarine blue				ST	G, s	I	PB29		17	66	176	27.3	32.7	-68.8		157	189	235	73.9	1.2	-28.9				
7000345	Phthalo blue (green shade)				ST	S	II	PB15:3		4	42	85	14.5	11.3	-34.6		0	146	206	50.7	-17.4	-51.2				
7000380	Viridian green				ST	G, s	I	PG18		0	119	88	41.3	-45.0	2.2		166	217	202	82.2	-19.8	-0.4				
7000430	Titan buff				ST		I	PW6:1		202	181	152	75.4	4.2	17.8		238	227	203	90.9	0.6	13.0				
7000545	Iridescent pearl (fine)				ST	G		TiO2 on mica		215	207	197	83.6	1.5	5.9		220	214	206	86.0	1.2	4.9				
7000120	Nickel azo yellow				T	S	I	PY150		205	126	19	62.4	24.3	65.3		235	168	0	75.8	14.0	79.4				
7000160	Quinacridone gold deep				T	S	II	PO48		63	24	22	14.9	22.0	11.8		225	135	81	66.8	33.7	45.2				
7000185	Transparent pyrrole orange				T	S	(II)	PO71		189	26	0	43.5	66.6	61.0		253	129	67	70.0	45.3	58.0				
7000240	Permanent alizarin crimson				T	S	(II)	PR177		166	44	54	40.3	58.6	28.1		227	163	180	74.1	31.4	2.4				
7000265	Quinacridone magenta				T	S	(I)	PR122		121	35	58	29.8	46.4	11.0		219	135	190	67.0	45.9	-12.4				
7000280	Quinacridone violet				T	S	I	PV19		116	40	58	29.6	42.1	10.2		207	184	211	77.1	17.2	-10.0				
7000375	Phthalo green (blue shade)				T	S	I	PG7		0	72	55	24.2	-26.4	-1.1		85	205	175	73.8	-42.1	-0.4				
7000400	Sap green				T	S	I	PG36, PR101, PY150		30	38	29	13.9	-6.1	4.0		191	189	113	76.1	-11.9	37.7				
7000405	Terre verte				T	G	I	PG23		154	171	127	67.9	-15.8	19.4		218	226	205	88.9	-7.1	9.0				
7000425	Green gold				T	s	(I)	PY129		97	78	50	35.2	3.3	20.5		235	205	81	84.6	-4.2	63.5				
7000445	Transparent yellow oxide				T	G, S	I	PY42		121	61	25	34.6	24.0	35.7		232	166	77	75.1	15.5	56.1				
7000525	Ardoise grey				T	G	I	PBk19		95	87	78	37.5	2.4	6.7		204	197	188	79.9	1.2	5.5				
						s = semi; S = fully staining																				
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7000295	Dioxazine purple				ST	S	(I)	PV23		39	34	38	13.8	3.5	-1.2		106	95	161	42.4	22.0	-35.1
7000400	Sap green				T	S	I	PG36, PR101, PY150		30	38	29	13.9	-6.1	4.0		191	189	113	76.1	-11.9	37.7
7000345	Phthalo blue (green shade)				ST	S	II	PB15:3		4	42	85	14.5	11.3	-34.6		0	146	206	50.7	-17.4	-51.2
7000160	Quinacridone gold deep				T	S	II	PO48		63	24	22	14.9	22.0	11.8		225	135	81	66.8	33.7	45.2
7000505	Ivory black				O	G, S	I	PBk9		49	49	50	20.3	0.1	-0.5		142	138	134	57.6	1.0	2.8
7000375	Phthalo green (blue shade)				T	S	I	PG7		0	72	55	24.2	-26.4	-1.1		85	205	175	73.8	-42.1	-0.4
7000485	Raw umber (natural)				SO	G, s	I	PBr7		66	62	59	26.2	1.3	2.5		181	161	141	68.0	4.3	13.7
7000290	Ultramarine violet				ST	G, s	I	PV15		68	57	114	26.4	19.5	-31.9		162	138	203	60.9	22.5	-29.8
7000480	Burnt umber (natural)				SO	G, s	I	PBr7		80	59	50	27.2	9.0	9.7		202	169	146	72.3	9.8	17.3
7000310	Ultramarine blue				ST	G, s	I	PB29		17	66	176	27.3	32.7	-68.8		157	189	235	73.9	1.2	-28.9
7000280	Quinacridone violet				T	S	I	PV19		116	40	58	29.6	42.1	10.2		207	184	211	77.1	17.2	-10.0
7000265	Quinacridone magenta				T	S	(I)	PR122		121	35	58	29.8	46.4	11.0		219	135	190	67.0	45.9	-12.4
7000390	Cobalt green				SO	G	(I)	PG26		46	82	69	31.2	-16.7	1.7		216	224	218	88.2	-3.6	1.5
7000470	Burnt sienna (natural)				SO	G, s	I	PBr7		105	67	60	33.3	17.7	12.2		227	180	152	77.8	14.9	21.9
7000225	Pyrrole red deep				SO	S	(II)	PR264		146	23	34	33.7	57.8	31.7		214	135	148	65.7	38.5	8.4
7000445	Transparent yellow oxide				T	G, S	I	PY42		121	61	25	34.6	24.0	35.7		232	166	77	75.1	15.5	56.1
7000425	Green gold				T	s	(I)	PY129		97	78	50	35.2	3.3	20.5		235	205	81	84.6	-4.2	63.5
7000525	Ardoise grey				T	G	I	PBk19		95	87	78	37.5	2.4	6.7		204	197	188	79.9	1.2	5.5
7000210	Pyrrole red medium				SO	S	(I)	PR254		172	0	0	37.6	69.1	57.8		227	159	164	73.0	31.0	9.7
7000320	Cobalt blue				SO	G, s	I	PB28		0	104	204	37.6	16.5	-68.9		159	203	239	78.1	-4.1	-24.9
7000330	Cerulean blue, chromium				SO	G	I	PB36:1		0	109	160	37.8	-9.8	-44.6		176	213	231	81.8	-6.8	-15.3
7000240	Permanent alizarin crimson				T	S	(II)	PR177		166	44	54	40.3	58.6	28.1		227	163	180	74.1	31.4	2.4
7000380	Viridian green				ST	G, s	I	PG18		0	119	88	41.3	-45.0	2.2		166	217	202	82.2	-19.8	-0.4
7000230	Permanent scarlet				ST	S	(II)	PR168		185	36	32	43.4	64.0	45.4		252	162	159	76.8	35.8	18.9
7000185	Transparent pyrrole orange				T	S	(II)	PO71		189	26	0	43.5	66.6	61.0		253	129	67	70.0	45.3	58.0
7000200	Pyrrole red light				SO	s	I	PR255		215	54	40	51.4	68.1	51.0		248	180	175	80.4	27.5	14.2
7000450	Raw sienna (natural)				SO		I	PY43		185	113	59	56.4	24.7	44.0		245	204	155	85.7	8.2	31.2
7000120	Nickel azo yellow				T	S	I	PY150		205	126	19	62.4	24.3	65.3		235	168	0	75.8	14.0	79.4
7000405	Terre verte				T	G	I	PG23		154	171	127	67.9	-15.8	19.4		218	226	205	88.9	-7.1	9.0
7000430	Titan buff				ST		I	PW6:1		202	181	152	75.4	4.2	17.8		238	227	203	90.9	0.6	13.0
7000545	Iridescent pearl (fine)				ST	G		TiO2 on mica		215	207	197	83.6	1.5	5.9		220	214	206	86.0	1.2	4.9
7000100	Nickel yellow				SO		I	PY53		239	213	81	87.0	-6.2	64.0		248	230	110	92.2	-8.0	57.6
7000115	Bismuth vanadate yellow				ST	s	(I)	PY184		255	221	0	91.4	-4.7	100.4		255	228	0	92.8	-8.4	90.8
7000535	Titanium white				SO		I	PW6		247	246	244	96.8	0.0	1.2		245	244	240	96.0	0.0	1.7
						s = semi; S = fully staining																
	Colours scanned and pasted in from patch samples. Colour values measured using ColorMunki®.																					
	Note that all colour values are approximate.																					
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