

| HOLBEIN ARTIST SOFT PASTEL |                      |  | Perm   | Color Index             | Color Index            | Munsell       |
|----------------------------|----------------------|--|--------|-------------------------|------------------------|---------------|
| Ref No.                    | Color Name           | Chemical Name  | Rating | Number                  | Name                   | Rating        |
| 1570-1                     | White                | Titanium Dioxide   | ***    | 77891                   | PW6                    | N 9.3         |
| 2                          | Gray III             | Titanium Dioxide, Carbon Black, Black Iron Oxide                 | ***    | 77891, 77726, 77499     | PW6, PBk7, PBk11       | N 8.4         |
| 3                          | Cool Gray III        | Titanium Dioxide, Carbon Black, Black Iron Oxide, Phthalocyanine |        | 77891, 77726, 77499, -- | PW6, PBk7, PBk11, PB68 | 1.6B 8.3/0.9  |
| 4                          | Gray III             | Titanium White, Carbon Black, Black Iron Oxide                   | ***    | 77891, 77726, 77499     | PW6, PBk7, PBk11       | N 7.6         |
| 5                          | Cool Gray II         | Titanium Dioxide, Iron Hydroxide, Carbon Black,                  | *      | 77891, 77492, 77726,    | PW6, PY42, PBk7,       | 8.7B 7.5/1.7  |
|                            |                      | Phthalocyanine   |        | 74160                   | PB15                   |               |
| 6                          | Dark Gray III        | Titanium Dioxide, Carbon Black, Black Iron Oxide                 | ***    | 77891, 77726, 77499     | PW6, PBk7, PBk11       | N 7.8         |
| 7                          | Gray                 | Titanium Dioxide, Carbon Black, Black Iron Oxide                 | ***    | 77891, 77726, 77499     | PW6, PBk7, PBk11       | N 6.7         |
| 8                          | Dark Gray II         | Titanium Dioxide, Carbon Black, Black Iron Oxide                 | ***    | 77891, 77726, 77499     | PW6, PBk7, PBk11       | N 5.9         |
| 9                          | Cool Gray I          | Titanium Dioxide, Titan Yellow, Carbon Black,                    | *      | 77891, 77738, 77726,    | PW6, PY53, PBk7        | 8.5B 6.7/1.5  |
|                            |                      | Phthalocyanine   |        | 74160                   | PB15                   |               |
| 10                         | Yellow Gray II       | Titanium Dioxide, Black Iron Oxide, Titan Yellow                 | *      | 77891, 77499, 77738     | PW6, PBk11, PY53       | 3.6GY 6.7/0.7 |
| 11                         | Yellow Gray I        | Titanium Dioxide, Black Iron Oxide, Titan Yellow                 | *      | 77891, 77499, 77738     | PW6, PBk11, PY53       | 4.0GY 5.6/0.8 |
| 12                         | Dark Gray            | Titanium Dioxide, Carbon Black, Black Iron Oxide                 | ***    | 77891, 77726, 77499     | PW6, PBk7, PBk11       | N 4.1         |
| 13                         | Black I              | Black Iron Oxide, Carbon Black                                   | ***    | 77499, 77726            | PBk11, PBk7            | N 2.1         |
| 14                         | Black II             | Black Iron Oxide, Iron Oxide, Iron Hydroxide                     | **     | 77499, 77491, 77492     | PBk11, PR101, PY42     | N 2.5         |
| 15                         | Old Gray Rose I      | Black Iron Oxide, Monoazo, Pyrazolone                            | **     | 77499, 12485, 21115     | PBk11, PR146, PO34     | 9.8RP 2.6/1.4 |
| 16                         | Old Gray Rose II     | Black Iron Oxide, Iron Oxide, Phthalocyanine,                    | *      | 77499, 77491, 74160,    | PBk11, PR101,          | 3.0RP 4.2/2.3 |
|                            |                      | Quinacridone   |        | 73907                   | PB15:3, PR202          |               |
| 17                         | Old Gray Rose III    | Titanium Dioxide, Iron Oxide, Black Iron Oxide,                  |        | 77891, 77491, 77499,    | PW6, PR101, PBk11,     | 8.7RP 5.2/2.4 |
|                            |                      | Phthalocyanine, Quinacridone                                     |        | 74160, 73907            | PB15:3, PR202          |               |
| 18                         | Vandyke Brown III    | Titanium Dioxide, Black Iron Oxide, Iron Oxide                   | *      | 77891, 77499, 77491,    | PW6, PBk11, PR101      | 8.3YR 5.2/2.6 |
|                            |                      | Isoindolinone  |        | 56280                   | PY110                  |               |
| 19                         | Vandyke Brown II     | Titanium Dioxide, Black Iron Oxide, Iron Oxide                   | **     | 77891, 77499, 77491,    | PW6, PBk11, PR101      | 9.0YR 4.5/2.2 |
|                            |                      | Isoindolinone  |        | 56280                   | PY110                  |               |
| 20                         | Vandyke Brown I      | Titanium Dioxide, Black Iron Oxide, Iron Oxide                   | **     | 77891, 77499, 77491,    | PW6, PBk11, PR101      | 9.5YR 3.8/2.1 |
|                            |                      | Isoindolinone  |        | 56280                   | PY110                  |               |
| 21                         | Burnt Umber IV       | Titanium Dioxide, Black Iron Oxide, Iron Oxide,                  | ***    | 77891, 77499, 77491,    | PW6, PBk11, PR101      | 2.8YR 6.6/2.3 |
|                            |                      | Iron Hydroxide   |        | 77492                   | PY42                   |               |
| 22                         | Burnt Umber III      | Titanium Dioxide, Black Iron Oxide, Iron Oxide,                  | ***    | 77891, 77499, 77491,    | PW6, PBk11, PR101,     | 0.5YR 5.5/1.8 |
|                            |                      | Iron Hydroxide, Monoazo  |        | 77492, 11710            | PY42, PY3              |               |
| 23                         | Burnt Umber II       | Titanium Dioxide, Black Iron Oxide, Iron Oxide,                  | ***    | 77891, 77499, 77491,    | PW6, PBk11, PR101,     | 1.6YR 4.2/2.2 |
|                            |                      | Iron Hydroxide, Monoazo  |        | 77492, 11710            | PY42, PY3              |               |
| 24                         | Burnt Umber I        | Titanium Dioxide, Black Iron Oxide, Iron Oxide,                  | ***    | 77891, 77499, 77491,    | PW6, PBk11, PR101      | 2.2YR 3.8/2.5 |
|                            |                      | Iron Hydroxide   |        | 77492                   | PY42                   |               |
| 25                         | Light Ochre          | Titanium Dioxide, Isoindolinone                                  | ***    | 77891, 56280            | PW6, PY110             | 2.1Y 8.6/7.5  |
| 26                         | Yellow Ochre III     | Iron Hydroxide, Black Iron Oxide                                 | ***    | 77492, 77499            | PY42, PBk11            | 2.2Y 7.9/6.1  |
| 27                         | Yellow Ochre II      | Iron Hydroxide, Black Iron Oxide                                 | ***    | 77492, 77499            | PY42, PBk11            | 1.6Y 6.6/8.0  |
| 28                         | Yellow Ochre I       | Iron Hydroxide, Iron Oxide, Black Iron Oxide                     | ***    | 77492, 77491, 77499     | PY42, PR101, PBk11     | 8.6YR 5.6/6.5 |
| 29                         | Olive Brown I        | Titanium Dioxide, Iron Hydroxide, Iron Oxide,                    | **     | 77891, 77492, 77491,    | PW6, PY42, PR101,      | 0.4YR 5.1/5.2 |
|                            |                      | Black Iron Oxide, Disazo   |        | 77499, 21108            | PBk11, PY83            |               |
| 30                         | Olive Brown II       | Titanium Dioxide, Iron Hydroxide, Iron Oxide,                    | *      | 77891, 77492, 77491,    | PW6, PY42, PR101,      | 1.5Y 6.4/5.5  |
|                            |                      | Black Iron Oxide, Disazo   |        | 77499, 21108            | PBk11, PY83            |               |
| 31                         | Olive Brown III      | Titanium Dioxide, Iron Hydroxide, Iron Oxide,                    | *      | 77891, 77492, 77491,    | PW6, PY42, PR101,      | 2.2Y 7.2/5.0  |
|                            |                      | Black Iron Oxide, Disazo   |        | 77499, 21108            | PBk11, PY83            |               |
| 32                         | Olive Brown Dark I   | Black Iron Oxide, Isoindolinone, Iron Oxide                      | **     | 77499, 56280, 77491     | PBk11, PY110, PR101    | 2.4Y 4.0/1.8  |
| 33                         | Olive Brown Dark II  | Black Iron Oxide, Isoindolinone, Iron Oxide                      | **     | 77499, 56280, 77491     | PBk11, PY110, PR101    | 1.7Y 4.4/3.0  |
| 34                         | Olive Brown Dark III | Black Iron Oxide, Isoindolinone, Iron Oxide                      | *      | 77499, 56280, 77491     | PBk11, PY110, PR101    | 1.1Y 5.0/4.2  |
| 35                         | Pale Brown III       | Titanium Dioxide, Iron Hydroxide, Iron Oxide,                    | ***    | 77891, 77492, 77491,    | PW6, PY42, PR101,      | 8.5YR 8.0/3.3 |
|                            |                      | Black Iron Oxide   |        | 77499                   | PBk11                  |               |
| 36                         | Pale Brown II        | Titanium Dioxide, Titan Yellow, Iron Oxide                       | *      | 77891, 77738, 77491     | PW6, PY53, PR101       | 3.7YR 7.6/4.0 |
| 37                         | Pale Brown I         | Titanium Dioxide, Iron Oxide, Disazo                             | *      | 77891, 77491, 21108     | PW6, PR101, PY83       | 10.0R 5.5/6.4 |
| 38                         | English Red II       | Titanium Dioxide, Iron Hydroxide, Iron Oxide                     | ***    | 77891, 77492, 77491     | PW6, PY42, PR101,      | 9.9R 5.0/6.8  |
| 39                         | English Red I        | Titanium Dioxide, Iron Oxide, Monoazo                            | **     | 77891, 77491, 11710     | PW6, PR101, PY3        | 8.9R 3.7/7.1  |

|    |                   |  |      |                            |                         |                |
|----|-------------------|--|------|----------------------------|-------------------------|----------------|
| 40 | Raw Sienna III    | Titanium Dioxide, Iron Hydroxide, Iron Oxide, Monoazo      | *    | 77891, 77492, 77491, 11710 | PW6, PY42, PR101, PY3   | 6.3Y 6.9/5.9   |
| 41 | Raw Sienna II     | Titanium Dioxide, Iron Hydroxide, Iron Oxide, Monoazo      | *    | 77891, 77492, 77491, 11710 | PW6, PY42, PR101, PY3   | 5.9YR 6.4/6.8  |
| 42 | Raw Sienna I      | Titanium Dioxide, Iron Hydroxide, Iron Oxide, Monoazo      | ***  | 77891, 77492, 77491, 11710 | PW6, PY42, PR101, PY3   | 5.6YR 5.9/7.6  |
| 43 | Burnt Sienna III  | Titan Yellow, Iron Oxide, Monoazo                          | ***  | 77738, 77491, 11710        | PY53, PR101, PY3        | 2.7YR 5.7/7.0  |
| 44 | Burnt Sienna II   | Titanium Dioxide, Titan Yellow, Iron Oxide, Monoazo        | **   | 77891, 77738, 77491, 11710 | PW6, PY53, PR101, PY3   | 2.6YR 6.7/5.5  |
| 45 | Burnt Sienna I    | Iron Hydroxide, Iron Oxide, Monoazo, Black Iron Oxide      | ***  | 77492, 77491, 11710, 77499 | PY42, PR101, PY3, PBk11 | 4.0YR 5.3/6.6  |
| 46 | Grayish Brown III | Titanium Dioxide, Iron Hydroxide, Iron Oxide, Carbon Black | ***  | 77891, 77492, 77491, 77726 | PW6, PY42, PR101, PBk7  | 6.8YR 7.0/2.1  |
| 47 | Grayish Brown II  | Titanium Dioxide, Iron Hydroxide, Iron Oxide, Carbon Black | **   | 77891, 77492, 77491, 77726 | PW6, PY42, PR101, PBk7  | 9.2YR 6.0/3.1  |
| 48 | Grayish Brown I   | Titanium Dioxide, Iron Hydroxide, Iron Oxide, Carbon Black | ***  | 77891, 77492, 77491, 77726 | PW6, PY42, PR101, PBk7  | 6.6YR 5.1/2.7  |
| 49 | Yellow III        | Titanium Dioxide, Titan Yellow, Monoazo                    | ***  | 77891, 77738, 11767        | PW6, PY53, PY97         | 9.0Y 9.0/7.5   |
| 50 | Lemon Yellow II   | Titanium Dioxide, Titan Yellow, Monoazo                    | **   | 77891, 77738, 11710        | PW6, PY53, PY3          | 1.2GY 9.0/6.9  |
| 51 | Lemon Yellow I    | Titanium Dioxide, Titan Yellow, Monoazo                    | ***  | 77891, 77738, 11710        | PW6, PY53, PY3          | 0.1GY 8.8/9.9  |
| 52 | Yellow II         | Titanium Dioxide, Titan Yellow, Monoazo                    | ***  | 77891, 77738, 11767        | PW6, PY53, PY97         | 7.6Y 8.8/10.6  |
| 53 | Yellow I          | Titan Yellow, Monoazo                                      | ***  | 77738, 11767               | PY53, PY97              | 6.6Y 8.8/13.3  |
| 54 | Chrome Yellow II  | Titanium Dioxide, Isoindolinone, Disazo                    | ***  | 77891, 56280, 21096        | PW6, PY110, PY55        | 2.4Y 8.2/12.8  |
| 55 | Chrome Yellow I   | Titanium Dioxide, Disazo                                   | ***  | 77891, 21096               | PW6, PY55               | 1.8Y 8.2/14.5  |
| 56 | Naples Yellow III | Titanium Dioxide, unknown                                  | *    | 77891, 11690               | PW6, --                 | 9.7YR 8.4/7.0  |
| 57 | Naples Yellow I   | Titanium Dioxide, Isoindolinone                            | **   | 77891, 56280               | PW6, PY110              | 0.8Y 8.1/9.5   |
| 58 | Naples Yellow II  | Titanium Dioxide, unknown                                  | *    | 77891, 11690               | PW6, --                 | 9.2Y 8.1/9.6   |
| 59 | Yellow Orange III | Titanium Dioxide, unknown, Pyrazolone                      | **   | 77891, 11690, 21115        | PW6, --, PO34           | 7.3YR 7.8/10.9 |
| 60 | Yellow Orange II  | Titanium Dioxide, unknown, Pyrazolone                      | ***  | 77891, 11690, 21115        | PW6, --, PO34           | 4.9YR 7.1/12.8 |
| 61 | Yellow Orange I   | Titanium Dioxide, Monoazo, Pyrazolone                      | **   | 77891, 11710, 21115        | PW6, PY3, PO34          | 4.9YR 6.9/10.5 |
| 62 | Orange II         | Titanium Dioxide, Isoindolinone, Perinone                  | **   | 77891, 56280, 71105        | PW6, PY110, PO43        | 2.2YR 7.1/11.4 |
| 63 | Orange I          | Titanium Dioxide, unknown, Pyrazolone                      | **   | 77891, 11690, 21115        | PW6, --, PO34           | 1.2YR 6.4/13.5 |
| 64 | Vermilion I       | Pyrazolone, Azo Pigment, Black Iron Oxide                  | **   | 21115, --, 77499           | PO34, --, PBk11         | 8.5R 5.5/12.9  |
| 65 | Vermilion II      | Titanium Dioxide, Pyrazolone, Isoindolinone,               | ***  | 77891, 21115, 56280,       | PW6, PO34, PY110,       | 9.6R 5.9/12.8  |
|    |                   | Black Iron Oxide   |      | 77499                      | PBk11                   |                |
| 66 | Vermilion III     | Titanium Dioxide, Pyrazolone, Isoindolinone,               | **   | 77891, 21115, 56280,       | PW6, PO34, PY110,       | 9.7R 6.4/11.2  |
|    |                   | Black Iron Oxide   |      | 77499                      | PBk11                   |                |
| 67 | Fresh Pink I      | Titanium Dioxide, unknown, Pyrazolone                      | ***  | 77891, 11690, 21115        | PW6, --, PO34           | 0.6YR 7.1/10.2 |
| 68 | Fresh Pink II     | Titanium Dioxide, Perinone                                 | **   | 77891, 71105               | PW6, PO43               | 0.6YR 7.8/7.3  |
| 69 | Fresh Pink III    | Titanium Dioxide, Pyrazolone                               | *    | 77891, 21115               | PW6, PO34               | 0.9YR 8.2/5.0  |
| 70 | Scarlet III       | Titanium Dioxide, Pyrazolone, Monoazo                      | ---- | 77891, 21115, 12485        | PW6, PO34, PR146        | 6.3R 6.8/9.2   |
| 71 | Scarlet II        | Titanium Dioxide, Pyrazolone, Monoazo                      | **   | 77891, 21115, 12485        | PW6, PO34, PR146        | 6.2R 6.1/11.7  |
| 72 | Scarlet I         | Titanium Dioxide, Pyrazolone, Monoazo                      | *    | 77891, 21115, 12485        | PW6, PO34, PR146        | 6.4R 5.5/12.9  |
| 73 | Ultramarine III   | Titanium Dioxide, Ultramarine, Quinacridone                | ---- | 77891, 77007, 73915        | PW6, PB29, PR122        | 9.4PB 6.8/7.0  |
| 74 | Ultramarine II    | Titanium Dioxide, Ultramarine, Quinacridone                | *    | 77891, 77007, 73915        | PW6, PB29, PR122        | 8.8PB 5.6/10.1 |
| 75 | Ultramarine I     | Titanium Dioxide, Ultramarine, Quinacridone                | **   | 77891, 77007, 73915        | PW6, PB29, PR122        | 8.2PB 4.6/12.3 |
| 76 | Violet I          | Titanium Dioxide, Ultramarine, Quinacridone                | **   | 77891, 77007, 73915        | PW6, PB29, PR122        | 3.0P 3.4/10.5  |
| 77 | Violet II         | Titanium Dioxide, Ultramarine, Quinacridone                | *    | 77891, 77007, 73915        | PW6, PB29, PR122        | 4.1P 4.3/10.1  |
| 78 | Violet III        | Titanium Dioxide, Ultramarine, Quinacridone                | *    | 77891, 77007, 73915        | PW6, PB29, PR122        | 4.3P 5.7/8.8   |
| 79 | Magenta           | Quinacridone, Quinacridone, Dioxazine                      | *    | 73900, 73915, 51319        | PV19, PR122, PV23       | 1.5RP 3.3/8.6  |
| 80 | Lavender I        | Titanium Dioxide, Ultramarine, Quinacridone                | ---- | 77891, 77007, 73907        | PW6, PB29, PR202        | 6.1P 5.9/7.6   |
| 81 | Lavender III      | Titanium Dioxide, Ultramarine, Quinacridone                | *    | 77891, 77007, 73907        | PW6, PB29, PR202        | 1.1RP 7.5/5.8  |
| 82 | Red Purple III    | Titanium Dioxide, Quinacridone, Quinacridone               | *    | 77891, 73900, 73915        | PW6, PV19, PR122        | 3.6RP 7.2/9.2  |
| 83 | Red Purple II     | Titanium Dioxide, Quinacridone, Quinacridone               | *    | 77891, 73900, 73915        | PW6, PV19, PR122        | 5.6RP 5.6/14.4 |
| 84 | Red Purple I      | Titanium Dioxide, Quinacridone, Quinacridone               | *    | 77891, 73900, 73915        | PW6, PV19, PR122        | 7.9RP 4.9/14.5 |
| 85 | Pink I            | Titanium Dioxide, Quinacridone                             | *    | 77891, 73915               | PW6, PR122              | 3.5RP 5.4/13.2 |
| 86 | Pink II           | Titanium Dioxide, Quinacridone                             | *    | 77891, 73915               | PW6, PR122              | 2.4RP 6.2/11.9 |
| 87 | Pink III          | Titanium Dioxide, Quinacridone                             | *    | 77891, 73915               | PW6, PR122              | 1.8RP 7.4/7.8  |
| 88 | Old Rose III      | Titanium Dioxide, Quinacridone, Iron Oxide,                | *    | 77891, 73915, 77491,       | PW6, PR122, PR101,      | 3.1RP 7.8/4.7  |
|    |                   | Black Iron Oxide   |      | 77499                      | PBk11                   |                |
| 89 | Old Rose I        | Titanium Dioxide, Quinacridone, Iron Oxide,                | *    | 77891, 73915, 77491,       | PW6, PR122, PR101,      | 3.9RP 6.4/7.1  |
|    |                   | Black Iron Oxide   |      | 77499                      | PBk11                   |                |
| 90 | Carmine           | Black Iron Oxide, Naphthole AS                             | ***  | 77499, 12490               | PBk11, PR5              | 2.6R 4.4/13.2  |
| 91 | Crimson III       | Titanium Dioxide, Iron Oxide, Ultramarine,                 | *    | 77891, 77491, 77007,       | PW6, PR101, PB29,       | 9.5RP 5.9/8.9  |

|     |                        |  |      |                             |                    |                |
|-----|------------------------|--|------|-----------------------------|--------------------|----------------|
|     |                        | 2B-acid-Sr   |      | 15865:3                     | PR48:3             |                |
| 92  | Crimson II             | Titanium Dioxide, Iron Oxide, Ultramarine,                   | ***  | 77891, 77491, 77007,        | PW6, PR101, PB29,  | 1.5R 4.5/8.9   |
|     |                        | 2B-acid-Sr   |      | 15865:3                     | PR48:3             |                |
| 93  | Crimson I              | Monoazo, Black Iron Oxide, Quinacridone,                     | **   | 12485, 77499, 73915,        | PR146, PBk11,      | 1.0R 3.7/8.5   |
|     |                        | Pyrazolone   |      | 21115                       | PR122, PO34        |                |
| 94  | Permanent Red III      | Titanium Dioxide, 2B-acid-SR                                 | **   | 77891, 15865:3              | PW6, PR48:3        | 0.7R 5.7/14.3  |
| 95  | Permanent Red II       | Titanium Dioxide, 2B-acid-SR                                 | ***  | 77891, 15865:3              | PW6, PR48:3        | 4.2R 4.8/15.5  |
| 96  | Permanent Red I        | 2B-acid-Sr   | ***  | 15865:3                     | PR48:3             | 5.5R 4.4/15.4  |
| 97  | Cobalt Blue III        | Titanium Dioxide, Ultramarine, Phthalocyanine,               | *    | 77891, 77007, N/A,          | PW6, PB29, PB68,   | 3.3PB 6.0/10.1 |
|     |                        | Phthalocyanine(x)  |      | 74160                       | PB15               |                |
| 98  | Cobalt Blue II         | Titanium Dioxide, Ultramarine, Phthalocyanine,               | **   | 77891, 77007, N/A,          | PW6, PB29, PB68,   | 3.6PB 4.9/11.2 |
|     |                        | Phthalocyanine(x)  |      | 74160                       | PB15               |                |
| 99  | Cobalt Blue I          | Phthalocyanine, Phthalocyanine (x), Black Iron Oxide         | *    | NA, 74160, 77499            | PB68, PB15, PBk11  | 3.5PB 4.0/11.0 |
| 100 | Prussian Blue I        | Prussian Blue  | ***  | 77510                       | PB27               | 4.9PB 2.9/7.2  |
| 101 | Prussian Blue II       | Titanium Dioxide, Prussian Blue                              | **   | 77891, 77510                | PW6, PB27          | 3.5PB 4.0/8.3  |
| 102 | Prussian Blue III      | Titanium Dioxide, Prussian Blue                              | **   | 77891, 77510                | PW6, PB27          | 2.0PB 5.4/8.1  |
| 103 | Indigo I               | Ultramarine, Black Iron Oxide, Phthalocyanine(x),            | *    | 77007, 77499, 74160,        | PB29, PBk11, PB15, | 5.8PB 2.5/3.5  |
|     |                        | 4B-acid-Ca   |      | 15850:1                     | PR57:1             |                |
| 104 | Indigo II              | Ultramarine, Black Iron Oxide, Phthalocyanine(x),            | *    | 77007, 77499, 74160,        | PB29, PBk11, PB15, | 4.8PB 3.3/4.4  |
|     |                        | 4B-acid-Ca   |      | 15850:1                     | PR57:1             |                |
| 105 | Indigo III             | Ultramarine, Black Iron Oxide, Phthalocyanine(x),            | *    | 77007, 77499, 74160,        | PB29, PBk11, PB15, | 3.2PB 5.1/4.1  |
|     |                        | 4B-acid-Ca   |      | 15850:1                     | PR57:1             |                |
| 106 | Blue Gray I            | Titanium Dioxide, Black Iron Oxide, Phthalocyanine(x)        | **   | 77891, 77499, 74160         | PW6, PBk11, PB15   | 0.2PB 3.6/3.9  |
| 107 | Blue Gray II           | Titanium Dioxide, Black Iron Oxide, Phthalocyanine(x)        | *    | 77891, 77499, 74160         | PW6, PBk11, PB15   | 1.0PB 5.2/4.1  |
| 108 | Blue Gray III          | Titanium Dioxide, Black Iron Oxide, Phthalocyanine(x)        | **   | 77891, 77499, 74160         | PW6, PBk11, PB15   | 1.0PB 5.9/5.0  |
| 109 | Light Blue III         | Titanium Dioxide, Phthalocyanine, Phthalocyanine,            | *    | 77891, 74160, NA,           | PW6, PB15:3, PB68, | 9.0B 6.2/8.8   |
|     |                        | Phthalocyanine(x), Monoazo                                   |      | 74160, 11710                | PB15, PY3          |                |
| 110 | Light Blue II          | Titanium Dioxide, Phthalocyanine, Phthalocyanine,            | *    | 77891, 74160, NA,           | PW6, PB15:3, PB68, | 8.6B 5.5/9.5   |
|     |                        | Phthalocyanine(x), Monoazo                                   |      | 74160, 11710                | PB15, PY3          |                |
| 111 | Light Blue I           | Titanium Dioxide, Phthalocyanine, Phthalocyanine,            | **   | 77891, 74160, NA,           | PW6, PB15:3, PB68, | 9.0B 4.2/10.2  |
|     |                        | Phthalocyanine(x), Monoazo                                   |      | 74160, 11710                | PB15, PY3          |                |
| 112 | Turquoise Blue I       | Titanium Dioxide, Black Iron Oxide, Phthalocyanine(x),       | *    | 77891, 77499, 74160,        | PW6, PBk11, PB15,  | 5.9B 3.7/6.5   |
|     |                        | Chlorinate Phthalocyanine                                    |      | 74260                       | PG7                |                |
| 113 | Turquoise Blue II      | Titanium Dioxide, Black Iron Oxide, Phthalocyanine(x),       | *    | 77891, 77499, 74160,        | PW6, PBk11, PB15,  | 6.3B 4.5/7.4   |
|     |                        | Chlorinate Phthalocyanine                                    |      | 74260                       | PG7                |                |
| 114 | Cerulean Blue I        | Phthalocyanine, Monoazo, Black Iron Oxide                    | *    | NA, 11710, 77499            | PB68, PY3, PBk11   | 2.8B 4.8/8.0   |
| 115 | Cerulean Blue II       | Titanium Dioxide, Phthalocyanine, Phthalocyanine,            | ---- | 77891, 74160, NA,           | PW6, PB15:3, PB68, | 5.4B 6.1/7.2   |
|     |                        | Phthalocyanine(x), Monoazo                                   |      | 74160, 11710                | PB15, PY3          |                |
| 116 | Compose Green I        | Chlorinate Phthalocyanine, Phthalocyanine, Black Iron Oxide  | *    | 74260, NA, 77499            | PG7, PB68, PBk11   | 9.6BG 6.1/7.2  |
| 117 | Compose Green II       | Titanium Dioxide, Chlorinate Phthalocyanine, Phthalocyanine, | *    | 77891, 74260, NA,           | PW6, PG7, PB68,    | 0.9B 6.5/7.2   |
|     |                        | Monoazo  |      | 11710                       | PY3                |                |
| 118 | Compose Green III      | Titanium Dioxide, Chlorinate Phthalocyanine, Phthalocyanine, | ---- | 77891, 74260, NA,           | PW6, PG7, PB68,    | 2.5B 7.6/5.1   |
|     |                        | Monoazo  |      | 11710                       | PY3                |                |
| 119 | Ultramarine Blue       | Ultramarine, Phthalocyanine(x), Dioxazine,                   | **   | 77007, 74160, 51319,        | PB29, PB15, PV23,  | 7.3PB 3.9/13.5 |
|     |                        | Black Iron Oxide   |      | 77499                       | PBk11              |                |
| 120 | Ultramarine Blue Light | Ultramarine, Phthalocyanine(x), Dioxazine,                   | *    | 77007, 74160, 51319,        | PB29, PB15, PV23,  | 7.0PB 5.3/10.7 |
|     |                        | Black Iron Oxide   |      | 77499                       | PBk11              |                |
| 121 | Olive I                | Titan Yellow, Ultramarine, Black Iron Oxide, Monoazo,        | **   | 77738, 77007, 77499, 11710, | PY53, PB29, PBk11, | 4.2G 4.1/1.6   |
|     |                        | Iron Oxide   |      | 77491                       | PY3, PR101         |                |
| 122 | Olive II               | Titan Yellow, Ultramarine, Monoazo, Iron Oxide,              | ***  | 77738, 77007, 11767,        | PW53, PB29, PY97,  | 1.9GY 5.1/4.6  |
|     |                        | Chlorinate Phthalocyanine                                    |      | 77491, 74260                | PR101, PG7         |                |
| 123 | Olive III              | Titan Yellow, Ultramarine, Monoazo, Monoazo,                 | ***  | 77738, 77007, 11767,        | PY53, PB29, PY97,  | 0.5GY 6.0/5.2  |
|     |                        | Iron Oxide   |      | 11710, 77491                | PY3, PR101         |                |
| 124 | Olive Green            | Disazo, Cobalt Titanate Green Spinel,                        | **   | 21108, 77377,               | PY83, PG50,        | 5.7GY 5.8/7.5  |
|     |                        | Chlorinate Phthalocyanine, Black Iron Oxide                  |      | 74260, 77499                | PG7, PBk11         |                |
| 125 | Yellow Green Light     | Titan Yellow, Monoazo, Cobalt Titanate Green Spinel          | ***  | 77738, 11710, 77377         | PY53, PY3, PG50    | 2.1GY 8.6/9.1  |

|     |                    |   |      |                                      |                                  |               |
|-----|--------------------|---|------|--------------------------------------|----------------------------------|---------------|
| 126 | Yellow Green       | Titan Yellow, Monoazo, Cobalt Titanate Green Spinel,<br>Black Iron Oxide                        | ***  | 77738, 11710, 77377<br>77499         | PY53, PY3, PG50<br>PBk11         | 4.6GY 7.8/6.9 |
| 127 | Moss Green         | Cobalt Titanate Green Spinel, Disazo, Black Iron Oxide,<br>Chlorinate Phthalocyanine            | **   | 77377, 21108, 77499,<br>74260        | PG50, PY83, PBk11,<br>PG7        | 9.2GY 4.5/5.9 |
| 128 | Grass Green        | Titanium Dioxide, Monoazo, Phthalocyanine   | **   | 77891, 11767, NA                     | PW6, PY97, PB68                  | 9.2GY 6.1/9.5 |
| 129 | Pale Green         | Titanium Dioxide, Monazo, Chlorinate Phthalocyanine   | *    | 77891, 11710, 74260                  | PW6, PY3, PG7                    | 5.2G 7.2/8.0  |
| 130 | Emerald Green      | Monoazo, Chlorinate Phthalocyanine, Phthalocyanine  | ***  | 11710, 74260, 74160                  | PY3, PG7, PB15:3                 | 4.1G 5.6/11.1 |
| 131 | Dark Green         | Cobalt Titanate Green Spinel, Disazo, Black Iron Oxide,<br>Chlorinate Phthalocyanine            | **   | 77377, 21108, 77499,<br>74260        | PG50, PY83, PBk11,<br>PG7        | 0.4G 3.9/4.1  |
| 132 | Green Gray         | Titanium Dioxide, Chlorinate Phthalocyanine,<br>Black Iron Oxide, Monoazo                       | *    | 77891, 74260,<br>77499, 11710        | PW6, PG7,<br>PBk11, PY3          | 0.8BG 6.1/5.8 |
| 133 | Focus Green        | Chlorinate Phthalocyanine, Black Iron Oxide, Monoazo  | *    | 74260, 77499, 11710                  | PG7, PBk11, PY3                  | 5.7G 5.0/6.6  |
| 134 | Cobalt Green       | Titanium Dioxide, Chlorinate Phthalocyanine,<br>Phthalocyanine, Monoazo                         | **   | 77891, 74260,<br>NA, 11710           | PW6, PG7,<br>PB68, PY3           | 3.4BG 5.4/8.8 |
| 135 | Cobalt Green Light | Titanium Dioxide, Chlorinate Phthalocyanine,<br>Phthalocyanine, Monoazo                         | ---- | 77891, 74260,<br>NA, 11710           | PW6, PG7,<br>PB68, PY3           | 5.6BG 6.9/6.7 |
| 136 | Foggy Green III    | Titanium Dioxide, Ultramarine, Cobalt Titanate Green<br>Spinel, Isoindolinone, Black Iron Oxide | **   | 77891, 77007, 77377,<br>56280, 77499 | PW6, PB29, PG50,<br>PY110, PBk11 | 2.7G 7.0/1.9  |
| 137 | Foggy Green II     | Titanium Dioxide, Ultramarine, Cobalt Titanate Green<br>Spinel, Isoindolinone, Black Iron Oxide | **   | 77891, 77007, 77377,<br>56280, 77499 | PW6, PB29, PG50,<br>PY110, PBk11 | 6.4G 5.5/2.5  |
| 138 | Foggy Green I      | Titanium Dioxide, Ultramarine, Cobalt Titanate Green<br>Spinel, Isoindolinone, Black Iron Oxide | **   | 77891, 77007, 77377,<br>56280, 77499 | PW6, PB29, PG50,<br>PY110, PBk11 | 1.5BG 4.3/2.4 |
| 139 | Deep Green III     | Chlorinate Phthalocyanine, Black Iron Oxide, Disazo,<br>Phthalocyanine(x)                       | *    | 74260, 77499, 21108,<br>74160        | PG7, PBk11, PY83,<br>PB15        | 5.8G 5.2/5.7  |
| 140 | Deep Green II      | Chlorinate Phthalocyanine, Black Iron Oxide, Disazo,<br>Phthalocyanine(x)                       | **   | 74260, 77499, 21108,<br>74160        | PG7, PBk11, PY83,<br>PB15        | 6.0G 3.4/4.9  |
| 141 | Deep Green I       | Black Iron Oxide, Chlorinate Phthalocyanine   | **   | 77499, 74260                         | PBk11, PG7                       | 4.5G 2.8/2.8  |
| 142 | Viridian           | Chlorinate Phthalocyanine, Titan Yellow   | **   | 74260, 77738                         | PG7, PY53                        | 1.8BG 4.5/8.7 |
| 143 | Blue Green II      | Cobalt Titanate Green Spinel, Titanium Dioxide, Phthalocyanine                                  | *    | 77377, 77891, NA                     | PG50, PW6, PB68                  | 8.2BG 4.7/7.0 |
| 144 | Blue Green I       | Black Iron Oxide, Chlorinate Phthalocyanine   | **   | 77499, 74260                         | PBk11, PG7                       | 4.2BG 3.8/4.7 |