FEDERAL STANDARD 595B

COLORS USED IN GOVERNMENT PROCUREMENT

DECEMBER 15, 1989

FSC 8010

FED-STD-595B
December 15, 1989

INFORMATION SHEET

ON

FEDERAL STANDARDS

This Federal Standard is issued in loose-leaf form to permit the insertion or removal of new or revised material.

All users of Federal Standards should keep them up to date by inserting revised or new material as issued.

New and revised material will be issued under Change Notices which will be numbered consecutively and will bear the data of issuance. Change notices should be retained and filed in front of the Standard until such time as it is superseded by a reissue of the entire standard.

FED-STD-595B
December 15, 1989
SUPERSEDING
FED-STD-595A
January 2, 1968

FEDERAL STANDARD No. 595B

COLORS USED IN GOVERNMENT PROCUREMENT

Authority. This standard is issued pursuant to the Federal Property and Administrative Services Act of 1949, as amended, and its application to the purchase of commodities referred to herein is mandatory on all Federal Agencies.

S1. Scope. This standard presents the colors used by Government Activities in a format suitable for color selection, color matching and for quality control inspection. This document describes the designation and use of the color chips of the standard. For reference purposes, each color is reproduced herein as a 1/2 by 1 inch sample. The standard color chips are also available in the following formats:

1. Fan Deck -- Suitable for color identification and selection.

2. Individual color chips -- A 3 x 5 inch color chip supplied in a 3 x 5 inch protective envelope -- suitable for color matching and quality control inspection purposes.

3. Sets of color chips -- A set containing one 3 x 5 inch color chip each in its protective envelope -- suitable for color matching and quality control inspection purposes.

The standard with color samples, fan decks, individual color chips, and sets of color chips are for sale by the General Services Administration, Specification Section, Room 6662, 7th and D Streets, Washington, DC 20407.

S2. Applicable Documents.

American Society for Testing and Materials (ASTM) Standards:

D 523 - Specular Gloss.
D 1729 - Visual Evaluation of Color Differences of Opaque Materials.
D 2244 - Calculation of Color Differences from instrumentally measured color coordinates.
E 308 - Spectrophotometry and Description of Color in CIE 1931 System.

(Copies may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

S3. Color Identification and Reference.

S3.1 Color identification. Each color is identified by a five-digit code. Colors in this standard are not to be referenced without giving the five-digit code, otherwise the reference is ambiguous.

S3.2 Numbering system.

S3.2.1 First Digit. The first digit of the color number indicates the color at a level or degree of gloss. The colors are divided only into three generalized finishes: gloss, semi-gloss and flat. For ease in judging the color matching (see also 3.3) the color number closest in gloss to that required should be specified. Specific levels of gloss, other than these standard levels must be separately specified in the procurement documents.

First Digit	Finish
1	Gloss
2	Semi-Gloss
3	Flat or Lusterless

S3.2.2 Second Digit. The second digit of the color number indicates an arbitrarily selected color classification grouping.

Second Digit	Predominate Color Grouping
0	Brown
1	Red
2	Orange
3	Yellow
4	Green
5	Blue
6	Gray
7	Miscellaneous (whites, blacks, etc.)
8	Fluorescent

S3.2.3 Last Three Digits. The last three digits of the color number are assigned in the approximate order of increasing reflectance.

S3.3 Color Matching.

S3.3.1 General. This standard covers color chips for color matching and control of items produced for Government use. Unless otherwise specified or designated by the contracting officer, color chips shall be the latest in effect by date of contract. Color matching by chromaticity coordinates or tristimulus values is not authorized for colors referenced in this standard.

S3.3.2 Metamerism. Colors that visually match in lights of certain spectral compositions but not in others are said to be metameric. The light source, condition of viewing and specular reflectance are critical to overcome metamerism and to determine correct matches. Therefore, light sources as specified in ASTM D 1729 shall be used for visual color matching.

S3.3.3 Color Matching Criteria. In specifying color, the procurement documents should state:

a. The FED-STD-595 color number;
b. The source (or sources) of illumination under which the color is to be matched; and
c. The method by which the color is to be matched; either:
   (1) ASTM D 1729 -- Visual Evaluation of Color Differences of Opaque Materials -- state whether critical or general match; or,
   (2) ASTM D 2244 -- Calculation of Color Differences from instrumentally measured color coordinates. -- State for CIELAB color space the maximum color difference and the maximum hue difference tolerated. Name and address of organization supplying paint chip.

S3.4 Color Chip Authorization for Use.

S3.4.1 After the publication of this standard, only color chips marked FED-STD-595B shall be used.

S3.4.2 Color chips which are soiled, stained, faded, or otherwise damaged due to improper handling, storage or exposure to light or chemicals shall not be used.

S3.5 Care of color chips. All color chips will change with time and some will change more than others. Color change can be minimized by observing the following procedures.

a. Store the color chips in a cool, dark place;
b. avoid exposure of the color chips to direct of scattered UV light or chemicals;
c. minimize exposure of the color chips to light from any source;
d. keep the color chips covered when not in use;
e. do not touch the face of the color chips.

S4. Color cross reference. The following colors meet the special requirements for safety, highway and camouflage colors.

Safety Colors (OSHA)	Highway Colors (DOT)	Camouflage Colors
Red -- 11120	Brown -- 10055	Green 383 -- 34094
-- 11105	Red -- 11086	Brown 383 -- 30051
-- 1140	-- 11105	Black -- 37030
Orange -- 12300	Orange -- 12243	Tan 686 -- 33446
-- 12246	Yellow -- 13507	Dark Green -- 34082
Yellow -- 13591	-- 13538	Field Drab -- 33105
-- 13655	Green -- 14066	Earth Yellow -- 33245
Green -- 14120	-- 14109	Sand -- 33303
-- 14260	Blue -- 15065	Aircraft Green -- 34031
Blue -- 15092	-- 15090	Aircraft Gray -- 36300
-- 15102	School Bus	Dark Sandstone -- 33510
Purple -- 17155	Yellow -- 13415	Interior
-- 17142		Aircraft Black -- 37031
International		
Orange -- 12197		

Note: The chips for camouflage colors shall be used for general color matching purposes only. The specifications for camouflage coatings contain requirements for infrared reflectance which must be met in addition to color. The color cards (chips) for the camouflage colors will contain pigments chosen for their stability and compatibility with the color card coating and, therefore, have different infrared reflectance characteristics than those required for camouflage coatings. Merely matching the color chip for color will not be sufficient to assure product acceptance by the contracting activity. For further information, contact: Commander, U.S. Army Belvoir RDE Center, ATTN: STRBE-VO, Fort Belvoir, VA 22060-5606.

S5. Color chip reproduction. Color chips may not be reproduced without the authorization of General Services Administration. Reproduction of color chips from any source other than the master standard is not authorized. The General Services Administration must approve all color matches made when the color chips are reproduced.

S7. International standardization agreement. Several colors listed in this standard are the subject of international standardization agreement, MAS Army 440, 7 December 1987, NATO STANAG 2321, Edition 4. When there is a change, revision, or cancellation of this standard which will affect or violate the international agreement concerned, the preparing activity will take appropriate reconciliatory action through international standardization channels including departmental standardization offices, if required. The following colors are covered by the above agreement: silver/aluminum 17178, brown 30117 or 30140, red 31136, light red 31158, yellow 33538, light green 34558 or 34449, dark green 34108, light blue 35109, gray 36231, black 37038, violet 37100, and white 37875.

APPENDIX I

PIGMENTS USED IN FED-STD 595B MASTER STANDARD

The following list of pigments is provided for information only.

It is a list of the generic names of the primary pigments used in the coating of the standard color chip to be matched. The color chip coating may contain other pigments used in making the final color match.

By providing this list, the Government makes no representation, either explicit or implied that these pigments must be used in the products to be provided. Neither does the provision of this list imply that the standard color chip can be matched using any source of the listed pigments and any vehicle, that a proposed match using these pigments will be accepted, or that a proposed color match using different pigments will be rejected solely because of this listing.

Materials furnished under contracts referencing a FED-STD-595 color must conform to all of the requirements of the product specification. Any conflict between contract requirements and this pigment listing are to be resolved in favor of the contract requirements.

Proposed color matches will be accepted or rejected based solely on the color matching criteria stated in the contract referencing the FED-STD-595 color number.

LIST OF PIGMENTS USED IN COLOR CHIPS OF STANDARD COLORS

Code	Pigment
1	Rutile Titanium Dioxide
2	Lamp Black
4	Yellow Iron Oxide
5	Monoazo Red (Yellow Shade)
6	Phthalocyanine Blue (Red Shade)
7	Benzimidazolone Yellow
8	Phthalocyanine Blue (Green Shade)
9	Red Iron Oxide (Blue Shade)
10	Quinacridone Violet
11	Phthalocyanine Green (Blue Shade)
12	Perylene Vermillion
13	Natural Raw Umber
14	Quinacridone Magenta Y
15	Molybdate Orange (Red Shade)
16	Naphthalene Tetracarboxylic Acid
18	Carbazole Violet
21	Fast Diarylide Yellow
22	Quinacridone Red
23	Brown Iron Oxide
24	Natural Burnt Umber
25	Green Chrome Oxide
26	Chrome Yellow Primrose
27	Chrome Yellow Med. (Red Shade)
31	Phthalocyanine Green (Yellow Shade)
39	Carbon Black (Blue Shade)
41	Green Fluorescent
42	Orange Fluorescent
43	Fire Orange Fluorescent
44	Red Fluorescent
45	Yellow Fluorescent
46	Fine Aluminum Paste
47	Fine Yellow Metallic

Pigments used in production of standard colors.

10032	1,6,10,12,22	13596	1,4,7,39
10045	1,4,9,39	13613	1,4,7,13,15
10049	1,8,10,12,22	13618	1,4,7,9,39
10055	1,15,16,24,31	13637	1,4,7,8,39
10059	1,9,13,39	13655	1,4,7,27
10070	1,6,13,14,23	13670	1,7,8,27
10075	1,4,9,18,39	13690	1,4,7,9,13
10076	1,9,14,27,39	13695	1,4,7,9,39
10080	1,4,15,27,39	13711	1,4,7,9,39
10091	1,7,8,9,15	14036	1,7,11,39
10115	1,4,10,15,39	14050	1,4,31,39
10219	1,15,27,39	14052	1,4,15,39
10233	1,4,9,39	14056	1,7,11,16,39
10260	1,4,7,13	14062	1,26,31,39
10266	1,4,7,9,13	14064	1,4,9,39
10324	1,9,27,39	14066	1,7,11,39
10371	1,4,9,24	14077	1,4,31,39
11086	1,7,16,22	14079	1,7,11,15,39
11105	1,12,22,39	14081	1,4,31,39
11120	1,12,15,39	14084	1,24,27,39
11136	1,7,10,22,39	14087	1,24,27,39
11140	1,4,10,22,27,39	14090	1,7,11,39
11302	1,12,15,39	14097	1,7,13,27,31,39
11310	1,12,15,39	14109	1,6,7,11,39
11328	1,7,22,39	14110	1,4,7,11,39
11350	1,5,10,14,22	14115	1,7,11,39
11400	1,16,22,39	14120	1,10,11,26
11630	1,7,9,10	14151	1,6,27,39
11670	1,4,15,39	14158	1,8,13,39
12160	1,9,16,27,39	14159	1,7,31,39
12197	1,15,16,39	14187	1,4,7,11
12199	1,5,12,27	14193	1,11,21,26
12215	1,7,14,16,39	14223	1,11,27,39
12243	1,5,27,39	14241	1,4,6,31,39
12246	1,8,15,16,27,39	14255	1,7,14,27,39
12300	1,9,16,27,39	14257	1,11,27,39
12473	1,14,16,27	14260	1,4,7,11,39
12648	1,4,9,39	14272	1,4,6,7,11,13
13275	1,4,7,9,16,39	14277	1,4,6,31,39
13415	1,15,27,39	14325	1,4,11,39
13432	1,15,27,39	14449	1,4,7,11,39
13507	1,15,27,39	14491	1,4,6,9,31
13522	1,4,8,10,14	14516	1,6,7,11,39
13523	1,4,7,9,13	14533	1,4,7,8,39
13531	1,7,8,10,16	14672	1,7,13,31
13538	1,14,27,39	15042	1,8,27,39
13578	1,7,13,16	15044	1,4,8,11,22,39
13591	1,4,6,7	15045	1,8,18,27
13594	1,4,7,9,39	15048	1,6,12,27

15050	1,6,11,12
15052	1,6,11,12
15056	1,6,11,18
15065	1,7,8,18
15080	1,8,11,22
15090	1,8,11,12
15092	1,8,18,31
15095	1,6,11,18
15102	1,8,9,18
15107	1,4,6,11,12
15123	1,8,10,18
15125	1,6,11,27
15177	1,7,8,22
15180	1,8,11,18
15182	1,7,8,18
15187	1,6,8,11,14
15193	1,8,11,18,39
15200	1,6,8,11,39
15450	1,4,6,22
15526	1,6,11,39
16081	1,4,11,39
16099	1,4,11,14,39
16160	1,4,9,39
16165	1,9,27,39
16187	1,11,27,39
16251	1,7,27,39
16307	1,11,13,39
16314	1,7,11,39
16350	1,4,18,39
16357	1,4,9,39
16360	1,4,8,13,16
16376	1,6,11,13
16405	1,4,8,13
16440	1,8,13,18
16473	1,4,11,22,39
16492	1,4,39
16515	1,6,7,39
16555	1,2,4,13
17038	1,7,18,39
17043	13,14,39,47
17100	1,10,12,18
17142	1,4,10,22,39
17155	1,10,14,22,39
17178	6,39,46
17773	1,7,8,39
17778	1,4,7,39
17855	1,4,7,39
17875	1,4,5,6
17877	1,6,7,39
17886	1,4,7,39
17925	1
20040	1,4,5,39
20045	1,4,9,39
20059	1,9,24,27,39
20061	1,6,14,16
20062	1,7,9,39
20095	1,7,13,16,23
20100	1,7,9,23
20109	1,6,9,14
20117	1,4,9,39
20122	1,5,7,27,39
20140	1,4,15,39
20152	1,6,10,15,22
20206	1,15,23,39
20219	1,15,27,39
20227	1,9,13,27,39
20233	1,4,9,39
20252	1,4,14,16,23
20260	1,4,7,13
20266	1,4,7,9,13
20313	1,4,9,39
20318	1,4,9,39
20372	1,4,23,39
20400	1,4,9,13
20450	1,4,3,39
20475	1,4,9,39
21105	1,12,22,39
21136	1,7,10,22,39
21158	1,5,18,22,27
21302	1,12,15,39
21310	1,12,15,39
21400	1,16,22,39
21433	1,4,15,39
21575	1,4,14,23
21643	1,7,9,39
21667	1,7,9,27,39
21668	1,13,14,27
21670	1,4,15,39
22144	1,4,9,15
22190	1,5,15,16
22203	1,4,15,39
22246	1,8,15,16,27,39
22276	1,7,9,16,39
22356	1,9,15,27
22510	1,9,16,27
22516	1,9,13,27
22519	1,4,9,39
22544	1,7,12,14,27,39

22563	1,4,13,14
22630	1,4,7,9,39
22648	1,4,9,39
23275	1,4,7,9,16,39
23448	1,4,23,39
23522	1,4,8,10,14
23531	1,7,8,10,16
23538	1,14,27,39
23540	1,4,5,7
23564	1,4,7,39
23578	1,7,13,15
23594	1,4,7,9,39
23613	1,4,7,13,15
23617	1,4,7,9,13
23619	1,7,23,27
23655	1,4,7,27
23685	1,4,6,7,31
23690	1,4,7,9,13
23695	1,4,7,9,39
23697	1,4,7,9,13
23711	1,4,7,9,39
23717	1,7,9,13,27
23722	1,7,9,13
23727	1,4,7,9,11,13
23785	1,7,27,39
23793	1,4,7,39
23814	1,4,7,8
24052	1,4,15,39
24064	1,4,9,39
24079	1,7,11,15,39
24084	1,24,27,39
24087	1,24,27,39
24091	1,9,27,39
24097	1,7,13,27,31,39
24098	1,7,27,39
24108	1,7,11,39
24148	1,4,11,39
24158	1,8,13,39
24159	1,7,31,39
24172	1,4,11,39
24190	1,11,26,27
24201	1,4,9,31,39
24226	1,7,8,13
24227	1,11,16,27,39
24233	1,7,11,39
24241	1,4,6,31,39
24260	1,4,7,11,39
24272	1,4,6,7,11,13
24277	1,4,6,31,39
24300	1,4,11,39
24325	1,4,11,39
24373	1,4,11,39
24410	1,4,7,31,39
24417	1,4,7,11,13,39
24424	1,4,7,13,31
24432	1,7,11,13
24441	1,4,7,11,13
24449	1,4,7,11,39
24466	1,8,13,27
24491	1,4,6,9,31
24504	1,4,7,11,39
24516	1,6,7,11,39
24518	1,4,8,13
24525	1,4,11,39
24533	1,4,7,8,39
24552	1,7,11,27,39
24554	1,7,13,31
24558	1,11,26,39
24583	1,4,7,11,39
24585	1,7,11,39
24664	1,7,11,39
24670	1,4,11,26,39
24672	1,7,13,31
25042	1,8,27,39
25045	1,8,18,27
25048	1,6,12,27
25051	1,8,14,39
25052	1,6,11,12
25053	1,8,11,12,22
25056	1,6,11,18
25095	1,6,11,18
25102	1,8,9,18
25109	1,8,9,18
25177	1,7,8,22
25183	1,7,8,18
25184	1,8,9,14
25189	1,8,13,14
25190	1,8,13,18
25193	1,8,11,18,39
25230	1,6,11,18
25237	1,11,16,18,39
25240	1,8,10,16
25299	1,7,10,11,39
25352	1,7,8,23
25414	1,4,6,31,39
25488	1,4,8,18
25526	1,6,11,39
25550	1,6,31,39

25622	1,4,6,16
25630	1,4,21,39
26008	1,10,11,39
26044	1,11,22,39
26081	1,4,11,39
26099	1,4,11,14,39
26118	1,8,18,39
26120	1,4,9,39
26122	1,7,9,39
26132	1,4,22,39
26134	1,4,9,39
26152	1,11,27,39
26173	1,6,9,39
26176	1,8,10,39
26187	1,11,27,39
26231	1,6,7,39
26250	1,4,11,39
26251	1,7,27,39
26270	1,6,7,39
26280	1,8,13,14
26293	1,6,23,31
26306	1,11,13,14
26307	1,11,13,39
26314	1,7,11,39
26329	1,6,11,23
26357	1,4,9,39
26360	1,4,8,13,16
26373	1,6,13,39
26400	1,4,8,9
26405	1,4,8,13
26408	1,4,8,13
26424	1,8,10,13
26440	1,8,13,18
26492	1,4,39
26493	1,7,14,39
26496	1,6,13,31
26521	1,4,9,13
26555	1,2,4,13
26559	1,7,13,39
26586	1,7,11,13
26595	1,7,8,13
26622	1,7,8,13
27038	1,7,18,39
27040	1,4,9,16,39
27043	13,14,39,47
27142	1,4,10,22,39
27144	1,10,14,39
27160	1,14,18,22
27722	1,4,13,39
27769	1,4,13,39
27778	1,4,7,39
27780	1,4,7,39
27855	1,4,7,39
27875	1,4,5,6
27880	1,13,16,27
27886	1,4,7,39
27925	1
28913	22,42,44
28915	22,42,43,45
30040	1,4,5,39
30045	1,4,9,13
30051	1,7,9,13
30059	1,9,24,27,39
30097	1,7,13,16
30099	1,4,23,39
30108	1,15,16,27,39
30109	1,10,15,27,39
30111	1,9,13,18
30117	1,4,9,39
30118	1,13,23,27,39
30140	1,7,9,39
30145	1,4,9,39
30160	1,4,22,39
30166	1,9,18,39
30206	1,15,23,39
30215	1,9,13,27
30219	1,15,27,39
30227	1,9,13,27,39
30233	1,4,9,39
30252	1,4,14,16,23
30257	1,12,13,27
30266	1,4,7,9,13
30277	1,4,13,39
30279	1,4,9,13
30313	1,4,9,39
30315	1,4,22,39
30318	1,4,9,39
30324	1,9,27,39
30372	1,4,23,39
30450	1,4,9,39
30475	1,4,9,39
31090	1,16,24,26,27
31136	1,7,10,22,39
31158	1,5,18,22,27
31302	1,12,15,39
31310	1,12,15,39
31350	1,5,10,14,22
31400	1,16,22,39

31433	1,4,15,39
31575	1,4,14,23
31638	1,4,9,22
31643	1,7,9,39
31667	1,7,9,27,39
31668	1,13,14,27
31669	1,9,22,27
31670	1,4,15,39
32169	1,13,14,16,27
32246	1,8,15,16,27,39
32276	1,7,9,16,39
32356	1,9,15,27
32473	1,14,16,27
32516	1,9,13,27
32544	1,7,12,14,27,39
32555	1,15,27,39
32630	1,4,7,9,39
32648	1,4,9,39
33070	1,6,7,13
33105	1,24,27,39
33245	1,4,9,13
33275	1,4,7,9,16,39
33303	1,6,9,27
33434	1,4,23,27
33440	1,4,23,39
33446	1,4,13,15
33448	1,4,23,39
33481	1,4,7,13,39
33510	1,4,7,13
33522	1,4,8,10,14
33531	1,7,8,10,16
33538	1,14,27,39
33564	1,4,7,39
33578	1,7,13,16
33613	1,4,7,13,15
33617	1,4,7,9,13
33637	1,4,7,8,39
33655	1,4,7,27
33685	1,4,6,7,31
33690	1,4,7,9,13
33695	1,4,7,9,39
33696	1,4,7,27
33711	1,4,7,9,39
33717	1,7,9,13,27
33722	1,7,9,13
33727	1,4,7,9,11,13
33793	1,4,7,39
33798	1,4,7,39
33814	1,4,7,8
34031	1,6,9,399
34052	1,4,14,39
34058	1,8,11,39
34064	1,4,9,39
34079	1,7,11,15,39
34082	1,6,7,18,39
34083	1,13,27,39
34084	1,24,27,39
34086	1,4,23,39
34087	1,24,27,39
34088	1,24,27,39
34089	1,6,27,39
34090	1,7,11,39
34092	1,7,31,39
34094	1,6,13,27
34095	1,8,27,39
34096	1,8,23,27
34097	1,7,13,27,31,39
34098	1,7,27,39
34102	1,6,27,39
34108	1,7,11,39
34127	1,7,11,23
34128	1,4,31,39
34130	1,27,31,39
34138	1,4,7,11,39
34148	1,4,11,39
34151	1,6,27,39
34158	1,8,13,39
34159	1,7,31,39
34201	1,4,9,31,39
34226	1,7,8,13
34227	1,11,16,27,39
34230	1,4,7,11
34233	1,7,11,39
34241	1,4,6,31,39
34258	1,11,29,39
34259	1,13,27,31
34272	1,4,6,7,11,13
34277	1,4,6,31,39
34300	1,4,11,39
34325	1,4,11,39
34373	1,4,11,39
34410	1,4,7,31,39
34414	1,6,27,39
34424	1,4,7,13,31
34432	1,7,11,13
34441	1,4,7,11,13
34449	1,4,7,11,39
34491	1,4,6,9,31

34504	1,4,7,11,39
34516	1,6,7,11,39
34518	1,4,8,13
34524	1,4,7,8,13
34533	1,4,7,8,39
34540	1,6,21,31
34552	1,7,11,27,39
34554	1,7,13,31
34558	1,11,26,39
34583	1,4,7,11,39
34666	1,7,11,27
34670	1,4,11,26,39
34672	1,7,13,31
35042	1,8,27,39
35044	1,4,8,11,22,39
35045	1,8,18,27
35048	1,6,12,27
35052	1,6,11,12
35056	1,6,11,18
35095	1,6,11,18
35109	1,8,9,18
35164	1,8,22,39
35177	1,7,8,22
35180	1,8,11,18
35183	1,7,8,18
35189	1,8,13,14
35190	1,8,13,18
35193	1,8,11,18,39
35231	1,6,22,39
35237	1,11,16,18,39
35240	1,8,10,16
35250	1,6,8,11,14
35275	1,8,11,18
35299	1,7,10,11,39
35352	1,7,8,23
35414	1,4,6,31,39
35450	1,4,6,22
35466	1,6,8,11,18
35488	1,4,8,18
35526	1,6,11,39
35550	1,6,31,39
35622	1,4,6,16
35630	1,4,31,39
36076	1,6,22,39
36081	1,4,11,39
36099	1,4,11,14,39
36118	1,8,18,39
36152	1,11,27,39
36173	1,6,9,39
36176	1,8,10,39
36231	1,6,7,39
36251	1,7,27,39
36270	1,6,7,39
36280	1,8,13,14
36293	1,6,23,31
36300	1,8,9,10
36306	1,11,13,14
36307	1,11,13,39
36314	1,7,11,39
36320	1,8,22,39
36357	1,4,9,39
36373	1,6,13,39
36375	1,8,13,14
36405	1,4,8,13
36415	1,4,7,13
36424	1,8,10,13
36440	1,8,13,18
36463	1,8,27,39
36473	1,4,11,22,39
36492	1,4,39
36495	1,7,8,9
36521	1,4,9,13
36555	1,2,4,13
36559	1,7,13,39
36586	1,7,11,13
36595	1,7,8,13
36622	1,4,8,13
36628	1,8,13,18
36642	1,4,6,9
37030	1,14,27,39
37031	1,9,12,39
37038	1,7,18,39
37056	1,4,15,39
37100	1,10,14,18,22
37142	1,4,10,22,39
37144	1,10,14,39
37150	1,4,22,39
37200	1,6,14,39
37722	1,4,13,39
37769	1,4,13,39
37778	1,4,7,39
37855	1,4,7,39
37875	1,4,5,6
37886	1,4,7,39
37925	1
38901	7,41
38903	42,44
38905	22,42,44
38907	27,42

TABLE I

Predominantly browns

(10,000, 20,000, and 30,000 series)

TABLE I. Predominantly brown (10000, 20000, and 30000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
10076		
10080		
10091		
	20095	
		30097
		30099
	20100	
		30108
	20109	30109
		30111
10115		

TABLE I. Predominantly brown (10000, 20000, and 30000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
	20117	30117
		30118
	20122	
	20140	30140
		30145
	20152	
		30160
		30166
	20206	30206
		30215
10219	20219	30219

TABLE I. Predominantly brown (10000, 20000, and 30000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
	20227	30227
10233	20233	30233
	20252	30252
		30257
10260	20260	
10266	20266	30266
		30277
		30279
	20313	30313
		30315
	20318	30318

TABLE I. Predominantly brown (10000, 20000, and 30000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
10324		30324
10371		
	20372	30372
	20400	
	20450	30450
	20475	30475

TABLE II

Predominantly reds

(11,000, 21,000, and 31,000 series)

TABLE II. Predominantly red (11000, 21000, and 31000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
 11086		
		 31090
 11105	 21105	
 11120		
 11136	 21136	 31136
 11140		
	 21158	 31158
 11302	 21302	 31302
 11310	 21310	 31310
 11328		
 11350		 31350

TABLE II. Predominantly red (11000, 21000, and 31000 series) (cont'd.)

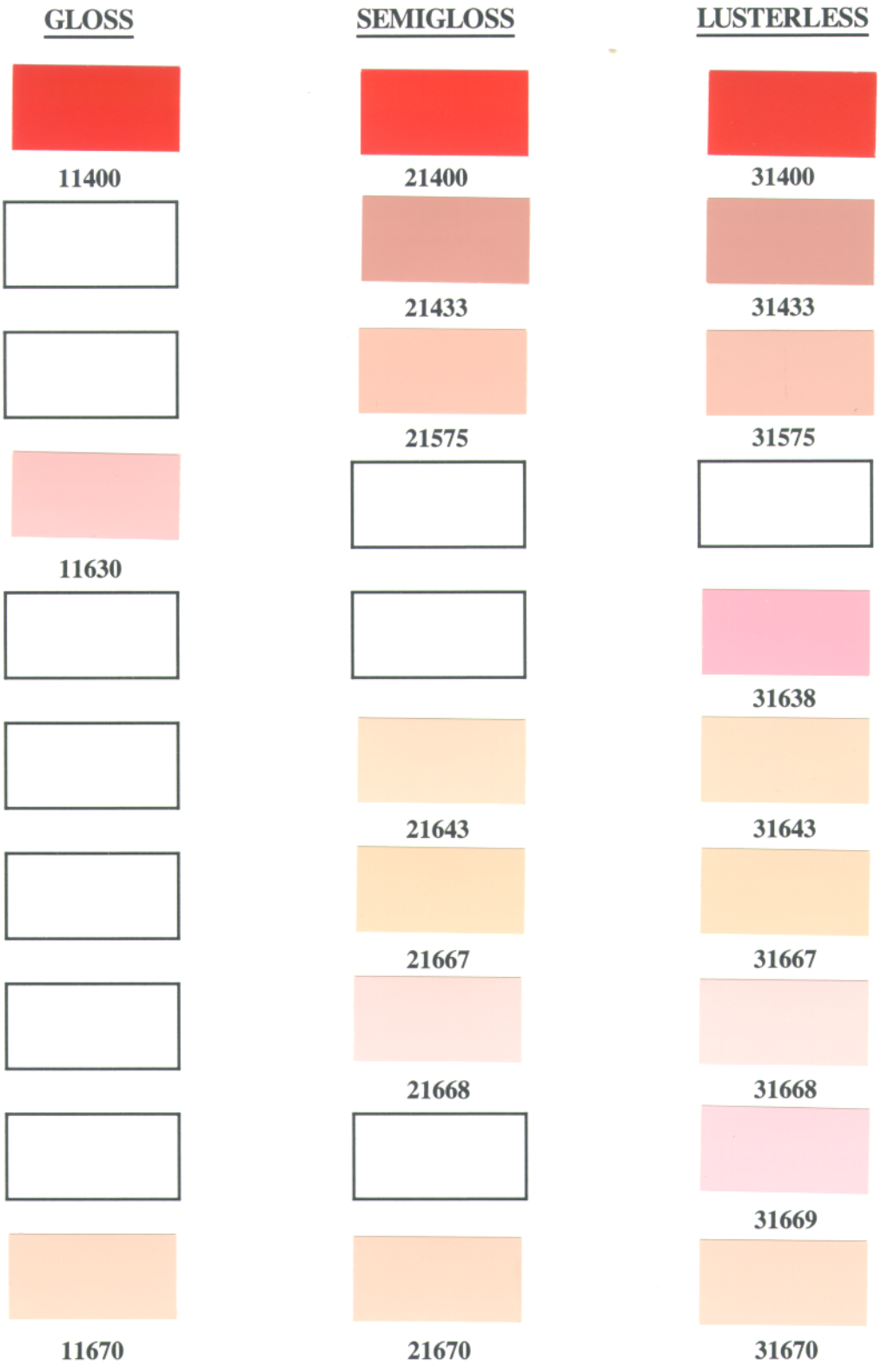


TABLE III

Predominantly oranges

(12,000, 22,000, and 32,000 series)

TABLE III. Predominantly orange (12000, 22000, and 32000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
	22144	
12160		
		32169
	22190	
12197		
12199		
	22203	
12215		
12243		
12246	22246	32246
	22276	32276

TABLE III. Predominantly orange (12000, 22000, and 32000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
12300		
	22356	32356
12473		32473
	22510	
	22516	32516
	22519	
	22544	32544
		32555
	22563	
	22630	32630
12648	22648	32648

TABLE IV

Predominantly yellows

(13,000, 23,000, and 33,000 series)

TABLE IV. Predominantly yellow (13000, 23000, and 33000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
		33070
		33105
		33245
13275	23275	33275
		33303
13415		
13432		
		33434
		33440
		33446
	23448	33448

TABLE IV. Predominantly yellow (13000, 23000, and 33000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		33481
13507		
		33510
13522	23522	33522
13523		
13531	23531	33531
13538	23538	33538
	23564	33564
13578	23578	33578
13591		
13594	23594	

TABLE IV. Predominantly yellow (13000, 23000, and 33000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
13596		
13613	23613	33613
	23617	33617
13618		
	23619	
13637		33637
13655	23655	33655
	23685	33685
13670		
13690	23690	33690
13695	23695	33695

TABLE IV. Predominantly yellow (13000, 23000, and 33000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		33696
	23697	
13711	23711	33711
	23717	33717
	23722	33722
	23727	33727
	23785	
	23793	33793
		33798
	23814	33814

TABLE V

Predominantly greens

(14,000, 24,000, and 34,000 series)

TABLE V. Predominantly green (14000, 24000, and 34000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
		34031
14036		
14050		
14052	24052	34052
14056		
		34058
14062		
14064	24064	34064
14066		
14077		
14079	24079	34079

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		
14081		
		
		34082
		
		34083
		
14084	24084	34084
		
		34086
(Color changed to 14084)	(Color changed to 24084)	(Color changed to 34088)
14087	24087	34087
		
		34088
		
		34089
		
14090		34090
		
	24091	
		
		34092

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		34094
		34095
		34096
14097	24097	34097
	24098	34098
		34102
	24108	34108
14109		
14110		
14115		
14120		

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		34127
		34128
		34130
		34138
	24148	34148
14151		34151
14158	24158	34158
14159	24159	34159
	24172	
14187		
14193		

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
	24201	34201
14223		
	24226	34226
	24227	34227
		34230
	24233	34233
14241	24241	34241
14255		
14257		
		34258
		34259

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
14260	24260	
14272	24272	34272
14277	24277	34277
	24300	34300
14325	24325	34325
	24373	34373
	24410	34410
		34414
	24417	
	24424	34424
	24432	34432

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
	24441	34441
14449	24449	34449
	24466	
14491	24491	34491
	24504	34504
14516	24516	34516
	24518	34518
		34524
	24525	
14533	24533	34533
		34540

TABLE V. Predominantly green (14000, 24000, and 34000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
	24552	34552
	24554	34554
	24558	34558
	24583	34583
	24585	
	24664	
		34666
	24670	34670
14672	24672	34672

TABLE VI

Predominantly blues

(15,000, 25,000, and 35,000 series)

TABLE VI. Predominantly blue (15000, 25000, and 35000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
 15042	 25042	 35042
 15044		 35044
 15045	 25045	 35045
 15048	 25048	 35048
 15050		
	 25051	
 15052	 25052	 35052
	 25053	
 15056	 25056	 35056
 15065		
 15080		

TABLE VI. Predominantly blue (15000, 25000, and 35000 series) (cont'd.)

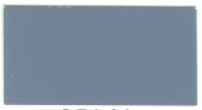
GLOSS	SEMIGLOSS	LUSTERLESS
 15090		
 15092		
 15095	 25095	 35095
 15102	 25102	
 15107		
	 25109	 35109
 15123		
 15125		
		 35164
 15177	 25177	 35177
 15180		 35180

TABLE VI. Predominantly blue (15000, 25000, and 35000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
15182		
	25183	35183
	25184	
15187		
	25189	35189
	25190	35190
15193	25193	35193
15200		
		35231
	25237	35237
	25240	35240

TABLE VI. Predominantly blue (15000, 25000, and 35000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		35250
		35275
	25299	35299
	25352	35352
	25414	35414
15450		35450
		35466
	25488	35488
15526	25526	35526
	25550	35550
	25622	35622
	25630	35630

TABLE VII

Predominantly grays

(16,000, 26,000, and 36,000 series)

TABLE VII. Predominantly gray (16000, 26000, and 36000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
	26008	
	26044	
		36076
16081	26081	36081
16099	26099	36099
		36118
	26120	
	26122	
	26132	
	26134	
	26152	36152

TABLE VII. Predominantly gray (16000, 26000, and 36000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
16160		
16165		
	26173	36173
	26176	36176
16187	26187	
	26231	36231
	26250	
16251	26251	36251
	26270	36270
	26280	36280
	26293	36293

TABLE VII. Predominantly gray (16000, 26000, and 36000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		36300
	26306	36306
16307	26307	36307
16314	26314	36314
		36320
	26329	
16350		
16357	26357	36357
16360	26360	
	26373	36373
		36375

TABLE VII. Predominantly gray (16000, 26000, and 36000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
16376		
	26400	
16405	26405	36405
	26408	
		36415
	26424	36424
16440	26440	36440
		36463
16473		36473
16492	26492	36492
	26493	

TABLE VII. Predominantly gray (16000, 26000, and 36000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
		36495
	26496	
16515		
	26521	36521
16555	26555	36555
	26559	36559
	26586	36586
	26595	36595
	26622	36622
		36628
		36642

TABLE VIII

Miscellaneous (including blacks, whites, and metallics)

(17,000, 27,000, and 37,000 series)

TABLE VIII. Miscellaneous (17000, 27000, and 37000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
		37030
		37031
17038	27038	37038
	27040	
17043	27043	
		37056
17100		37100
17142	27142	37142
	27144	37144
		37150
17155		

TABLE VIII. Miscellaneous (17000, 27000, and 37000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
17178		
		37200
	27722	37722
	27769	37769
17773		
17778	27778	37778
	27780	
17855	27855	37855
17875	27875	37875
17877		
	27880	

TABLE VIII. Miscellaneous (17000, 27000, and 37000 series) (cont'd.)

GLOSS	SEMIGLOSS	LUSTERLESS
17886	27886	37886
17925	27925	37925

TABLE IX

Fluorescent

(18,000, 28,000, and 38,000 series)

TABLE IX. Fluorescent colors (18000, 28000, and 38000 series)

GLOSS	SEMIGLOSS	LUSTERLESS
		38901
		38903
		38905
		38907
	28913	
	28915	

Federal Standard No. 595b
Addendum to tables listed.

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Table IV, Column 2, add color 23540

23540

PAGE 32

Table V, Column 2, add color 24190

24190

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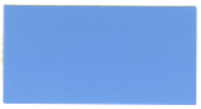
Table VI, Column 2, add color 25230



25230

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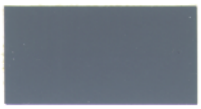
Table VII, Column 2, add color 26118



26118

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Table VIII, Column 2, add color 27160

27160