

CHANGE NOTICES ARE NOT  
CUMULATIVE AND SHALL BE  
RETAINED UNTIL SUCH TIME  
AS THE STANDARD IS REVISED.

NOT MEASUREMENT SENSITIVE

FED-STD-595C  
CHANGE NOTICE 1  
July 31, 2008

## FEDERAL STANDARD

### COLORS USED IN GOVERNMENT PROCUREMENT

The following changes, which form a part of FED-STD-595C, dated January 16, 2008, are approved by the General Services Administration for use by all federal agencies.

**Section 5(e), Table 1, First Digit, Page 3:** Note: These levels are approximate. Specific levels of gloss, other than these standard levels must be separately specified in the procurement documents.

**Appendix II – New Colors Added in 2007, Page 8**

**Appendix IV – Master Color List, Pages 13, 15, 16, 17**

For eight of the new, 2007 color chip references, change “Previous Color Chip Number, Fed-Std-595C, January 16, 2008,” to “Modified Color Chip Number, Fed-Std-595C, Change Notice 1, July 31, 2008.”

<b>Previous Color Chip Number, Fed-Std-595C, January 16, 2008</b>	<b>Modified Color Chip Number, Fed-Std-595C, Change Notice 1, July 31, 2008</b>
20070	20068
20160	20155
23440	23435
24109	24111
24110	24112
24120	24119
25050	25049
26300	26295

**Appendix IV – Master Color List, Page 20**

In “year added” column, add note that color chip number 34087 is cancelled.

**FED-STD-595C, Change Notice 1**

**RETAIN THIS NOTICE AND PLACE IT BEFORE THE FIRST PAGE OF THE STANDARD.**

**MILITARY INTERESTS:**

**Military Coordinating Activity**  
OSD - SO

**Preparing Activity**  
GSA – FAS (FSS)

**Custodians**

Navy – AS  
Air Force – 11  
Army - AT

**Review Activities**

DLA – CC  
Army – TE  
Navy – SA

NOT MEASUREMENT SENSITIVE

FED-STD-595C  
January 16, 2008  
SUPERSEDING  
FED-STD-595B  
December 15, 1989  
AND CHANGE NOTICE 1  
January 11, 1994

## FEDERAL STANDARD

### 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.

1. **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 this standard. Formats for color chip representation and precise color matching formats are as described below:
  - a. **Color Chip Representation, Fan Deck:** Suitable for color identification and selection.
  - b. **Color Chip Representation, Color Book:** Suitable for color identification, comparison and selection.
  - c. **Precise Color Matching, 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.
  - d. **Precise Color Matching, Sets of Color Chips:** A set containing one 3 x 5 inch color chip in its protective envelope for each Fed-Std-595 color, suitable for color matching and quality control inspection purposes.

#### 2. Referenced Documents:

American Society for Testing and Materials (ASTM) Standards:

ASTM D523	Standard Test Method for Specular Gloss
ASTM D1729	Standard Practice for Visual Appraisal of Colors and Color Differences of Diffusely-Illuminated Opaque Materials
ASTM D2244	Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
ASTM E308	Standard Practice for Computing the Colors of Objects by Using the CIE System
CIE 15:2004	Colorimetry, 3 <sup>rd</sup> edition, NET: <a href="http://www.cie.co.at">www.cie.co.at</a>

#### 3. Definitions: Not applicable

#### 4. General Requirements:

- a. **Color Matching:** 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. Neither the Fan Decks nor the Color Book shall be used for color matching. Tristimulus values are provided as a reference in this standard to supplement the primary color chip reference.
- b. **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 D1729 shall be used for visual color matching.
- c. **Color Matching Criteria:** In specifying color, procurement documents should state the Fed-Std-595 color number.
- d. **Color Chips Authorized for Use:**
  - i. After the publication of this standard, only color chips marked Fed-Std-595C shall be used.
  - ii. 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.
- e. **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.
  - i. Store the color chips in a cool dark place.
  - ii. Avoid exposure of the color chips to direct or scattered UV light or chemicals.
  - iii. Minimize exposure of the color chips to light from any source.
  - iv. Keep the color chips covered when not in use.
  - v. Do not touch the face of the color chips.
- f. **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.

#### 5. Detailed Requirements

- a. **Available Items:** The following items are available to both the Federal Community and commercial customers:
  - i. Fan Deck of representative colors, 0.5 x 2 inch color chips. The National Stock Number for this is 7690-01-162-2210.
  - ii. Fed-Std-595 Color Book, consisting of an 8.5 x 11 inch compilation of the representative color chips, each 0.5 x 1 inch in size. Individual paint colors are arranged in tabs by color family and in each tab, sequentially from light to dark and according to color chip number. These are formatted in three parallel columns corresponding to flat, semigloss and gloss.
  - iii. Individual 3 x 5 inch color reference chips
  - iv. Color set of all **650** 3 x 5 inch color reference chips

- b. Ordering Information, Commercial Customers:** Fan Decks, the Color Book, individual color chips, and sets of color chips are for sale by the General Services Administration at the following address:

GSA Property Management  
 GSA/CO/3QSCB  
 490 L'Enfant Plaza East S.W.  
 Suite 8214  
 Washington, D.C. 20407

- c. Ordering Information, Government Customers:** Individual color chips, Color Book, and sets of color chips are available at the address listed in “b” above. Fan Decks are available via routine supply channels under National Stock Number 7690-01-162-2210.
- d. 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.
- e. Current Color Reference System:** There are eight color groups and three gloss designations.
- i. First number corresponds to the gloss level (See Table 1 below.)
  - ii. Second number corresponds to the color group (See Table 2 below)
  - iii. Last 3 numbers represent that particular color by the sequence added and its relative placement from light to dark.

**Table 1, First Digit**

First Digit	Finish	Gloss Level	
		Minimum	Maximum
1	Gloss	80	--
2	Semi-gloss	30	45
3	Flat	--	6

**Table 2, Second Digit**

Second Digit	Color Groups
0	Brown
1	Red
2	Orange
3	Yellow
4	Green
5	Blue
6	Gray
7	Misc (Black, White, Gold, Silver, Violet)
8	Fluorescent

- f. Tristimulus, Specular Gloss Values:** Unless otherwise noted, tristimulus values referenced in this standard are expressed in Illuminant C or D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F2 (standard cool white fluorescent lamp) in accordance with ASTM E308 Standard Practice for Computing the Colors of Objects by Using the CIE System. (Reference CIE 1931 2-degree observer using 0° - 45° illumination, Hunter Colorimeter.) 60° Specular Gloss is calculated in accordance with Standard Number ASTM D523, Standard Test Method for Specular Gloss.

6. Notes

- a. **Color Cross Reference, Safety, Highway and Camouflage Colors:** The following colors meet the special requirements for Safety, Highway and Camouflage colors.

**Table 3, Safety, Highway and Camouflage Cross Reference**

Safety Colors, (OSHA)	Chip Number	Highway Colors, (DOT)	Chip Number	Camouflage Colors	Chip Number
Red	11120	Brown	10055	Green 383	34094
	11105	Red	11086	Brown 383	30051
	11140		11105	Black	37030
Orange	12300	Orange	12243	Tan 686A	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 Yellow	13415	Dark Sandstone	33510
Purple	17155			Interior Aircraft Black	37031
	17142				
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 suitability 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 for camouflage colors only: U.S. Army Research Laboratory, CARC Commodity Management, ATTN: AMSRD-ARL-WM-MC, Aberdeen Proving Ground, MD 21005-5069.

**b. 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 office, if required. The following colors are covered by the above agreement:

- i. Silver/ aluminum 17178
- ii. Brown 30117 or 30140
- iii. Red 31136
- iv. Light Red 31158
- v. Yellow 33538
- vi. Light Green 34558 or 34449
- vii. Dark Green 34108
- viii. Light Blue 35109
- ix. Gray 26231
- x. Black 37038
- xi. Violet 37100
- xii. White 37875

## 7. Concluding Material

### MILITARY INTERESTS:

**Military Coordinating Activity**  
OSD – SO

**Preparing Activity**  
GSA - FSS

### Custodians

Navy – AS  
Air Force – 11  
Army - AT

### Review Activities

DLA – CC  
Army – TE  
Navy - SA

**Appendices**

- I Pigments Used in Fed-Std-595C Master Standard
- II New Colors Added in 2007
- III CIELAB Values for Select Colors
- IV Master Color List
- V Notes



**Appendix I - Pigments Used in Fed-Std-595C Master Standard**

The following list of pigments is provided for information only.

It is a list of 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 conflicts 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.

**Table 4: LIST OF PIGMENTS USED IN COLOR CHIPS OF STANDARD COLORS**

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

FED-STD-595C

Appendix II - New Colors Added in 2007

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Gloss	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
12250	32.85	20.86	6.44	48.82	27.90	1.96	32.22	22.07	3.69	32.16	20.61	5.93	91.70	Orange	Coast Guard Orange	Gloss	1	2007
17860	77.96	80.61	89.24	88.15	80.71	27.06	79.37	80.81	50.75	75.60	80.63	82.13	93.00	Misc	Coast Guard White	Gloss	1	2007
17865				85.39	77.42	27.48	79.79	77.63	53.90	73.17	77.71	83.59	Gloss	Misc	Hawker Beechcraft White 17865	Gloss	4	2007
20065				9.99	8.49	2.36	8.45	8.25	4.39	8.08	8.19	7.09	21.00	Brown	Brown 356	Semigloss	3	2007
20070				10.75	9.20	2.21	9.05	8.95	4.06	8.57	8.84	6.59	20.00	Brown	Madeira 1957	Semigloss	3	2007
20090				12.33	10.12	2.01	10.43	9.98	3.80	9.64	9.34	6.09	17.00	Brown	Highland 480	Semigloss	3	2007
20150				17.67	14.57	3.21	14.43	13.89	5.87	13.73	13.77	9.52	19.00	Brown	Coyote 476/498	Semigloss	3	2007
20160				18.04	13.33	2.61	13.45	11.86	4.69	13.23	12.03	7.66	21.00	Brown	Light Brown 493	Semigloss	3	2007
20170				20.07	16.77	4.04	16.62	16.09	7.48	15.83	15.97	12.06	21.00	Brown	Olive Mohave	Semigloss	3	2007
20180				20.97	18.12	4.53	17.96	17.80	8.39	16.88	17.44	13.53	25.00	Brown	Tan 499	Semigloss	3	2007
20220				26.47	22.23	5.73	22.07	21.37	10.68	21.08	21.28	17.16	19.00	Brown	Light Coyote 481	Semigloss	3	2007
20270				33.77	28.61	8.64	28.65	27.64	16.41	27.57	27.68	26.17	30.00	Brown	Urban Tan 478	Semigloss	3	2007
23420				21.25	18.92	5.45	18.59	18.75	10.22	17.61	18.56	16.40	31.00	Yellow	Khaki 475	Semigloss	3	2007
23430				32.58	28.48	7.38	28.13	28.08	13.70	26.45	27.60	22.06	19.00	Yellow	Khaki P1	Semigloss	3	2007
23440				33.74	29.68	7.80	29.25	29.31	14.57	27.52	28.85	23.38	19.00	Yellow	Light Khaki 494	Semigloss	3	2007
23525				53.98	47.61	15.05	47.55	47.12	28.65	45.22	46.73	45.66	15.00	Yellow	Desert Sand 500/503	Semigloss	3	2007
23530				46.78	40.40	12.73	40.34	39.39	24.26	38.74	39.44	38.63	13.00	Yellow	Light Tan 479	Semigloss	3	2007
23640				77.22	61.01	2.97	61.97	8.77	4.42	55.48	54.03	7.44	24.00	Yellow	Yellow 13655	Semigloss	3	2007
24070				5.60	5.48	1.93	5.26	5.60	3.58	4.96	5.61	5.82	28.00	Green	Army Green 491	Semigloss	3	2007
24109				9.31	8.91	2.68	7.97	8.66	4.78	7.76	9.16	7.86	19.00	Green	Dark Green 355	Semigloss	3	2007
24110				11.33	10.76	3.69	9.83	10.48	6.70	9.64	11.08	10.95	18.00	Green	Green 474	Semigloss	3	2007
24120				11.91	10.84	3.04	10.17	10.57	5.55	9.78	10.81	9.03	16.00	Green	Marine OD Green	Semigloss	3	2007
24165				15.55	14.39	5.10	14.17	14.48	9.70	13.51	14.46	15.53	16.00	Green	Foliage Green 502/504	Semigloss	3	2007
24210				19.41	16.90	3.97	16.50	16.55	7.31	15.53	16.31	11.80	24.00	Green	Light Green 354	Semigloss	3	2007
25050				5.05	4.46	1.78	4.45	4.38	3.41	4.37	4.46	5.47	18.00	Blue	Army Blue 450	Semigloss	3	2007
25060				5.87	5.35	3.67	5.60	5.30	6.73	5.73	5.71	11.18	20.00	Blue	Army Blue 451	Semigloss	3	2007
26255				24.63	24.45	9.29	22.28	22.28	17.94	21.78	22.74	28.50	16.9	Gray	Dark Gray 509	Semigloss	3	2007
26260				25.47	23.37	8.20	23.17	23.50	15.70	22.05	23.38	25.00	26.00	Gray	Urban Gray 501/505	Semigloss	3	2007
26290				29.84	27.22	10.97	27.02	27.07	21.20	26.29	27.51	33.63	18.00	Gray	Gray 26270	Semigloss	3	2007
26300				38.46	34.71	14.74	34.68	34.32	28.57	34.02	35.11	45.25	22.6	Gray	Gray 510	Semigloss	3	2007
26380				40.40	36.91	15.63	36.62	36.60	30.25	35.88	37.50	47.94	16.9	Gray	Medium Gray 508	Semigloss	3	2007
26630				67.57	61.83	24.30	61.74	61.92	47.04	59.52	62.32	74.40	22.5	Gray	Light Gray 507	Semigloss	3	2007
27041				4.49	3.99	1.48	3.97	3.94	2.82	3.86	3.98	4.55	19.00	Misc	Black	Semigloss	3	2007
27885				95.48	86.55	32.92	86.77	86.54	64.09	83.39	86.70	100.87	15.5	Misc	White 506	Semigloss	3	2007
32540	*CIELAB												2.5	Orange	Navair Flat Orange #1	Flat	6	2007
34129	*CIELAB												2.5	Green	Navair Flat Green #2	Flat	6	2007
34160	12.86	13.49	13.98	14.81	13.53	4.25	12.76	13.37	7.98	12.48	13.51	12.89	2.00	Green	Foliage Green	Flat	2	2007
34170	*CIELAB												3	Green	Navair Flat Green #1	Flat	6	2007
36170	*CIELAB												4.70	Gray	Camouflage Gray	Flat	5	2007

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix III - CIELAB Values

32540			
Navair Flat Orange #1		Deft, Navair Submittal, Lakehurst NJ	
<b>Sphere d/8 SPIN</b>			
Illuminant/Observer	L*	a*	b*
D65/10	69.27	35.90	55.72
	L	a	b
A/2	71.40	38.76	22.17
D65/2	64.84	32.25	33.70
F2/2	69.55	22.50	29.45
<b>Gloss</b>			
60° Gloss	2.5		
85° Gloss	2.8		
34129			
Navair Flat Green #2		Deft, Navair Submittal, Lakehurst NJ	
<b>Sphere d/8 SPIN</b>			
Illuminant/Observer	L*	a*	b*
D65/10	39.08	-2.76	9.53
	L	a	b
A/2	32.77	-2.33	3.53
D65/2	32.64	-3.19	6.38
F2/2	33.17	-2.82	5.64
<b>Gloss</b>			
60° Gloss	2.5		
85° Gloss	3.0		
34170			
Navair Flat Green #1		Deft, Navair Submittal, Lakehurst NJ	
<b>Sphere d/8 SPIN</b>			
Illuminant/Observer	L*	a*	b*
D65/10	40.96	-2.60	7.17
	L	a	b
A/2	32.24	-1.82	2.66
D65/2	34.19	-2.73	4.91
F2/2	34.47	-2.37	4.28
<b>Gloss</b>			
60° Gloss	3.0		
85° Gloss	3.7		
36170			
Camouflage Gray		Deft, 99-GY-070, Lockheed Martin F-35	
<b>Sphere d/8 SPIN</b>			
Illuminant/Observer	L*	a*	b*
D65/10	45.88	-0.17	0.78
	L	a	b
A/2	39.12	-0.01	0.26
D65/2	39.11	-0.19	0.50
F2/2	39.09	0.01	0.42
<b>Gloss</b>			
60° Gloss	4.70		
85° Gloss	9.42		

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
10032	1.34	1.11	0.62	1.78	1.29	0.19	1.40	1.20	0.35					Brown		1, 6, 10, 12, 22	7, 8	1989
10045	6.13	5.67	5.32	7.49	6.04	1.60	6.18	5.80	3.05					Brown		1, 4, 9, 39	7, 8	1989
10049	2.70	1.86	0.86	3.89	2.35	0.26	2.58	1.91	0.50					Brown	Maroon 81352, ANA 510	1, 8, 10, 12, 22	7, 8	1989
10055	6.63	5.29	1.50	9.02	6.37	0.47	7.30	6.09	0.86					Brown	DoT Highway Brown	1, 15, 16, 24, 31	7, 8	1989
10059	No Data Available													Brown		1, 9, 13, 39	7, 8	1989
10070	No Data Available													Brown		1, 6, 13, 14, 23	7, 8	1989
10075	5.52	4.27	2.67	7.47	5.07	0.80	5.58	4.53	1.54					Brown		1, 4, 9, 18, 39	7, 8	1989
10076	7.70	4.96	1.36	11.41	6.61	0.42	7.60	5.29	0.78					Brown	Coast Guard Deck Red, Metallic Red-Brown	1, 9, 14, 27, 39	7, 8	1989
10080	5.64	5.13	2.74	7.31	5.70	0.86	5.97	5.50	1.55					Brown	Seal Brown, NASA Safety Brown	1, 4, 15, 24, 39	7, 8	1989
10091	9.02	6.50	1.61	12.90	8.22	0.51	9.39	7.21	0.92					Brown	Dark Oak	1, 7, 8, 9, 15	7, 8	1989
10115	18.66	15.36	5.75	25.69	18.08	1.83	19.19	16.47	3.25					Brown		1, 4, 10, 15, 39	7, 8	1989
10219	19.46	18.27	12.86	24.38	19.76	3.95	20.39	19.29	7.34					Brown		1, 15, 27, 39	7, 8	1989
10233	23.17	19.88	14.50	29.88	22.30	4.41	23.85	20.98	8.26					Brown	Cocoa Brown, National Parks Service	1, 4, 9, 39	7, 8	1989
10260	40.57	40.30	19.21	51.73	43.46	6.17	43.24	43.06	10.75					Brown		1, 4, 7, 13	7, 8	1989
10266	25.83	24.94	10.59	33.80	27.31	3.50	27.37	26.48	5.84					Brown	Middlestone	1, 4, 7, 9, 13	7, 8	1989
10324	31.11	29.82	24.76	37.96	31.62	7.52	32.07	30.97	14.14					Brown		1, 9, 27, 39	7, 8	1989
10371	34.91	31.84	13.81	46.01	35.69	4.40	36.88	34.33	7.77					Brown	Buff, TT-E-489	1, 4, 9, 24	7, 8	1989
11086	15.79	8.00	1.69	25.56	12.17	0.50	12.84	7.21	0.98					Red	DoT Highway Red	1, 7, 16, 22	7, 8	1989
11105	15.94	8.21	1.56	25.65	12.38	0.47	13.27	7.55	0.90					Red	OSHA Safety Red/ DoT	1, 12, 22, 39	7, 8	1989
11120	21.73	11.86	2.82	33.89	17.25	0.84	19.68	11.75	1.64					Red	OSHA Safety Red	1, 12, 15, 39	7, 8	1989
11136	13.77	7.25	1.53	22.10	10.79	0.45	11.41	6.68	0.90					Red	Insignia Red, Carmine Red	1, 7, 10, 22, 39	7, 8	1989
11140	16.22	8.45	1.85	26.09	12.64	0.55	13.38	7.66	1.07					Red	OSHA Safety Red	1, 4, 10, 22, 27, 39	7, 8	1989
11302	25.72	15.22	4.16	38.78	21.16	1.22	24.77	16.02	2.44					Red		1, 12, 15, 39	7, 8	1989
11310	No Data Available													Red	Post Office Red	1, 12, 15, 39	7, 8	1989
11328	22.06	12.98	7.24	32.93	17.75	2.12	20.19	12.85	4.19					Red		1, 7, 22, 39	7, 8	1989
11350	No Data Available													Red	Coast Guard Buoy Red	1, 5, 10, 14, 22	7, 8	1989
11400	28.43	16.64	3.33	43.06	23.40	0.97	27.67	17.85	1.97					Red		1, 16, 22, 39	7, 8	1989
11630	57.75	53.52	53.45	70.49	56.70	16.16	57.11	53.81	30.54					Red		1, 7, 9, 10	7, 8	1989
11670	68.33	65.45	55.03	83.71	69.36	16.83	69.89	67.46	31.31					Red	Peach	1, 4, 15, 39	7, 8	1989
12160	20.97	15.39	5.95	29.38	19.08	1.81	21.68	16.90	3.42					Orange	Orange-Brown	1, 9, 16, 27, 39	7, 8	1989
12197	26.78	15.71	1.55	41.04	22.19	0.50	21.02	14.01	0.85					Orange	International Orange, ANA 508	1, 15, 16, 39	7, 8	1989
12199	33.14	17.94	1.54	51.87	26.45	0.48	31.17	18.48	0.89					Orange	Coast Guard Red #40	1, 5, 12, 27	7, 8	1989
12215	29.49	18.97	2.46	44.36	25.54	0.83	29.15	20.33	1.38					Orange		1, 7, 14, 16, 39	7, 8	1989
12243	34.87	24.18	2.14	51.34	31.48	0.77	35.95	26.72	1.21					Orange	DoT Highway Orange	1, 5, 27, 39	7, 8	1989
12246	31.97	20.15	2.18	48.10	27.44	0.73	31.18	21.94	1.24					Orange	OSHA Safety Orange	1, 8, 15, 16, 27, 39	7, 8	1989
12250	32.85	20.86	6.44	48.82	27.90	1.96	32.22	22.07	3.69	32.16	20.61	5.93	91.70	Orange	Coast Guard Orange	Unk	1	2007
12300	39.73	30.20	2.13	57.10	37.75	0.78	42.05	33.92	1.25					Orange	OSHA Safety Orange	1, 9, 16, 27, 39	7, 8	1989
12473	39.18	27.28	3.26	58.15	35.37	1.09	38.79	29.17	1.88					Orange		1, 14, 16, 27	7, 8	1989
12648	59.29	57.42	40.21	73.81	61.33	12.47	61.61	60.09	22.73					Orange		1, 4, 9, 39	7, 8	1989
13275	No Data Available													Yellow	Post Office Yellow	1, 4, 7, 9, 16, 39	7, 8	1989
13415	45.92	39.79	4.46	63.44	46.84	1.57	49.78	44.74	2.60					Yellow	School Bus Yellow	1, 15, 27, 39	7, 8	1989
13432	47.96	40.84	3.77	67.04	48.52	1.36	51.45	45.63	2.21					Yellow		1, 15, 27, 39	7, 8	1989
13507	55.82	50.31	4.90	76.24	58.32	1.75	60.99	56.87	2.87					Yellow	DoT Highway Yellow	1, 15, 27, 39	7, 8	1989
13522	48.35	49.00	40.03	58.41	50.84	12.41	49.62	50.11	22.57					Yellow		1, 4, 8, 10, 14	7, 8	1989
13523	50.50	50.92	28.70	63.71	54.16	9.13	52.92	53.16	16.13					Yellow		1, 4, 7, 9, 13	7, 8	1989
13531	50.30	50.04	42.20	61.00	52.15	12.97	51.18	50.95	24.03					Yellow	Beige	1, 7, 8, 10, 16	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
13538	51.27	45.87	3.12	70.80	53.46	1.20	55.49	51.46	1.86				Yellow	DoT Highway Yellow, ANA 506	1, 14, 27, 39	7, 8	1989	
13578	55.60	56.66	43.10	67.48	58.93	13.38	57.64	58.34	24.48				Yellow	Warm Gray	1, 7, 13, 16	7, 8	1989	
13591	58.24	60.42	7.88	77.55	66.08	3.06	63.75	65.65	4.47				Yellow	OSHA Safety Yellow	1, 4, 6, 7	7, 8	1989	
13594	59.40	58.87	29.41	75.78	63.42	9.37	62.87	62.38	16.61				Yellow	Aircraft Cream, ANA 507	1, 4, 7, 9, 39	7, 8	1989	
13596	54.16	54.09	27.76	68.41	58.04	8.78	57.59	57.68	15.67				Yellow		1, 4, 7, 39	7, 8	1989	
13613	63.45	62.55	45.00	78.55	66.18	13.99	65.79	64.74	25.55				Yellow	Buff	1, 4, 7, 13, 15	7, 8	1989	
13618	60.71	61.95	20.93	79.93	66.94	6.98	65.14	66.01	11.81				Yellow	Postal Service Cream	1, 4, 7, 9, 39	7, 8	1989	
13637	44.74	43.72	6.86	59.47	48.81	2.44	49.36	48.80	3.90				Yellow		1, 4, 7, 8, 39	7, 8	1989	
13655	59.57	57.31	4.58	80.73	64.82	1.83	65.26	63.93	2.65				Yellow	OSHA Safety Yellow, ANA 505	1, 4, 7, 27	7, 8	1989	
13670	55.90	63.87	20.48	70.34	66.27	6.96	60.74	67.30	11.58				Yellow	Yellow-Green	1, 7, 8, 27	7, 8	1989	
13690	65.15	66.39	53.26	78.55	68.79	16.47	67.20	68.06	30.28				Yellow	Park Service Cream	1, 4, 7, 9, 13	7, 8	1989	
13695	63.14	63.67	30.02	80.69	68.27	9.77	67.02	67.33	16.72				Yellow	Ivory, Forest Service	1, 4, 7, 9, 39	7, 8	1989	
13711	64.73	64.92	49.16	79.02	68.00	15.25	66.99	67.10	27.85				Yellow		1, 4, 7, 9, 39	7, 8	1989	
13740	No Data Available												Yellow		Unk	7, 8	1994	
13814	No Data Available												Yellow		Unk	7, 8	1994	
14036	1.71	2.26	2.47	1.74	2.06	0.79	1.72	2.15	1.37				Green		1, 7, 11, 39	7, 8	1989	
14050	3.31	3.67	3.28	3.76	3.64	1.02	3.45	3.74	1.86				Green	Army Green, NATO Green	1, 4, 31, 39	7, 8	1989	
14052	3.15	3.44	2.77	3.69	3.47	0.87	3.28	3.51	1.56				Green	Marine Green #23	1, 4, 15, 39	7, 8	1989	
14056	2.61	3.05	3.09	2.82	2.93	0.96	2.71	3.06	1.74				Green		1, 7, 11, 16, 39	7, 8	1989	
14062	3.01	4.94	3.34	3.09	4.38	1.16	3.19	4.68	1.80				Green	Deep Green	1, 26, 31, 39	7, 8	1989	
14064	4.12	4.39	3.37	4.89	4.49	1.05	4.30	4.53	1.89				Green		1, 4, 9, 39	7, 8	1989	
14066	2.21	5.02	4.04	2.02	4.00	1.49	2.14	4.09	2.13				Green	DoT Highway Green	1, 7, 11, 39	7, 8	1989	
14077	4.06	4.59	4.32	4.54	4.51	1.34	4.22	4.65	2.44				Green		1, 4, 31, 39	7, 8	1989	
14079	4.96	5.48	3.94	5.83	5.54	1.25	5.30	5.68	2.22				Green		1, 7, 11, 15, 39	7, 8	1989	
14081	No Data Available												Green	Sikorsky Green	1, 4, 31, 39	7, 8	1989	
14084	2.02	2.11	1.26	2.48	2.20	0.39	2.13	2.20	0.72				Green		1, 24, 27, 39	7, 8	1989	
14090	4.29	8.99	5.40	4.15	7.53	1.98	4.45	7.90	2.92				Green		1, 7, 11, 39	7, 8	1989	
14097	8.09	9.43	6.01	9.45	9.43	1.90	8.65	9.74	3.41				Green		1, 7, 13, 27, 31, 39	7, 8	1989	
14109	2.91	5.81	4.85	2.74	4.78	1.73	2.88	4.95	2.58				Green	DoT Highway Green	1, 6, 7, 11, 39	7, 8	1989	
14110	5.18	9.04	3.95	5.47	8.10	1.42	5.68	8.71	2.17				Green	NASA Safety Medium Green	1, 4, 7, 11, 39	7, 8	1989	
14115	6.10	11.18	9.08	5.76	9.45	3.13	6.26	10.06	4.94				Green		1, 7, 11, 39	7, 8	1989	
14120	5.93	11.79	10.66	5.43	9.61	3.78	5.84	10.02	5.68				Green	OSHA Safety Green	1, 10, 11, 26	7, 8	1989	
14151	No Data Available												Green		1, 6, 27, 39	7, 8	1989	
14158	12.85	14.21	16.58	13.88	13.77	5.03	12.91	14.02	9.46				Green		1, 8, 13, 39	7, 8	1989	
14159	13.56	14.89	14.29	15.48	14.74	4.48	13.90	14.88	7.99				Green		1, 7, 31, 39	7, 8	1989	
14187	9.40	14.65	4.08	10.51	13.78	1.51	10.77	15.14	2.26				Green	Oxygen Tank Green, ANA 503	1, 4, 7, 11	7, 8	1989	
14193	No Data Available												Green	Coast Guard Green	1, 11, 21, 26	7, 8	1989	
14223	13.32	18.10	13.97	14.05	16.92	4.45	14.20	18.13	7.86				Green		1, 11, 27, 39	7, 8	1989	
14241	24.68	28.48	31.44	26.56	27.29	9.72	24.97	28.09	17.73				Green		1, 4, 6, 31, 39	7, 8	1989	
14255	20.87	22.21	12.08	25.75	23.19	3.80	22.10	23.27	6.87				Green		1, 7, 14, 27, 39	7, 8	1989	
14257	20.76	22.71	13.49	25.07	23.36	4.22	22.01	23.70	7.69				Green		1, 11, 27, 39	7, 8	1989	
14260	17.51	24.07	20.95	18.10	22.15	6.74	18.39	23.73	11.61				Green	OSHA Safety Green	1, 4, 7, 11, 39	7, 8	1989	
14272	20.60	25.88	22.32	22.45	24.59	7.15	21.57	25.77	12.40				Green		1, 4, 6, 7, 11, 13	7, 8	1989	
14277	24.38	27.28	30.34	26.55	26.44	9.32	24.66	27.04	17.17				Green		1, 4, 6, 31, 39	7, 8	1989	
14325	26.16	31.84	33.41	27.54	30.06	10.40	26.93	31.53	18.77				Green		1, 4, 11, 39	7, 8	1989	

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
14449	36.73	42.29	35.75	41.60	41.61	11.22	38.41	42.90	20.06				Green		1, 4, 7, 11, 39	7, 8	1989	
14491	40.50	45.62	44.89	45.24	44.66	13.91	41.29	45.55	25.30				Green		1, 4, 6, 9, 31	7, 8	1989	
14516	45.02	49.67	50.74	50.58	48.83	15.65	45.64	49.31	28.76				Green		1, 6, 7, 11, 39	7, 8	1989	
14533	38.58	43.71	33.94	44.88	43.55	10.75	40.18	44.36	18.99				Green		1, 4, 7, 8, 39	7, 8	1989	
14664	No Data Available												Green		Unk	7, 8	1994	
14672	58.82	63.63	58.43	67.40	63.68	18.04	60.93	64.68	33.12				Green	Army Admin Vehicles	1, 7, 13, 31	7, 8	1989	
15042	1.19	1.94	3.07	1.78	1.82	0.92	1.74	1.87	1.74				Blue	Sea Blue, Teal Blue, ANA 623	1, 8, 27, 39	7, 8	1989	
15044	1.52	1.49	3.54	1.36	1.35	1.05	1.38	1.37	2.01				Blue	Dark Blue, Insignia Blue, ANA 502	1, 4, 8, 11, 22, 35	7, 8	1989	
15045	1.99	2.22	4.91	1.71	1.92	1.47	1.77	1.95	2.79				Blue	Strata Blue, Air Force Blue, ANA 516	1, 8, 18, 27	7, 8	1989	
15048	No Data Available												Blue	Post Office Dark Blue	1, 6, 12, 27	7, 8	1989	
15050	3.01	2.93	9.34	2.23	2.43	2.75	2.50	2.48	5.32				Blue	Post Office Box	1, 6, 11, 12	7, 8	1989	
15052	No Data Available												Blue	Post Office Medium Blue	1, 6, 11, 12	7, 8	1989	
15055	No Data Available												Blue		Unk	7, 8	1994	
15056	3.44	2.27	13.76	2.00	1.76	3.88	2.51	1.78	8.01				Blue		1, 6, 11, 18	7, 8	1989	
15065	5.43	5.72	20.60	3.36	4.31	6.16	4.14	4.39	11.57				Blue	DoT Highway Blue	1, 7, 8, 18	7, 8	1989	
15080	4.61	5.02	13.53	3.43	4.16	4.01	3.98	4.37	7.68				Blue	Handicap Blue	1, 8, 11, 22	7, 8	1989	
15090	4.43	5.03	16.79	2.83	3.75	5.17	3.37	3.78	9.17				Blue	DoT Highway Blue	1, 8, 11, 12	7, 8	1989	
15092	11.02	12.11	38.11	7.39	9.46	11.38	8.71	9.66	21.50				Blue	OSHA Safety Blue	1, 8, 18, 31	7, 8	1989	
15095	No Data Available												Blue	Post Office Light Blue	1, 6, 11, 18	7, 8	1989	
15102	8.19	8.56	26.32	5.77	6.93	7.77	6.77	7.17	14.99				Blue	OSHA Safety Blue, ANA 501	1, 8, 9, 18	7, 8	1989	
15107	15.51	17.16	29.65	14.87	15.71	8.87	14.68	16.04	16.92				Blue		1, 4, 6, 11, 12	7, 8	1989	
15109	No Data Available												Blue		Unk	7, 8	1994	
15123	11.60	11.08	36.21	8.42	9.21	10.53	9.65	9.52	20.82				Blue	Bright Blue	1, 8, 10, 18	7, 8	1989	
15125	6.79	9.19	24.64	4.54	6.85	7.82	5.35	6.97	13.34				Blue		1, 6, 11, 27	7, 8	1989	
15177	15.31	16.48	30.78	14.44	15.04	9.19	14.38	15.37	17.54				Blue	Clear Blue	1, 7, 8, 22	7, 8	1989	
15180	12.17	12.23	43.08	7.99	9.58	12.77	9.62	9.86	24.33				Blue	Blue, 85285	1, 8, 11, 18	7, 8	1989	
15182	12.95	14.90	41.68	9.13	11.87	12.52	10.65	12.22	23.48				Blue	Coast Guard Blue	1, 7, 8, 18	7, 8	1989	
15187	19.79	23.89	57.54	15.21	19.47	17.59	16.96	20.07	32.09				Blue		1, 6, 8, 11, 14	7, 8	1989	
15193	15.48	18.81	28.72	14.68	16.90	8.81	14.99	17.66	16.16				Blue	Light Blue	1, 8, 11, 18, 39	7, 8	1989	
15200	29.61	36.18	68.40	25.99	31.14	21.02	27.09	32.10	38.25				Blue		1, 6, 8, 11, 39	7, 8	1989	
15450	39.06	42.20	69.60	39.17	39.32	20.97	36.76	39.50	39.57				Blue		1, 4, 6, 22	7, 8	1989	
15526	45.86	48.69	64.30	49.12	47.23	19.38	45.23	47.71	56.70				Blue		1, 6, 11, 39	7, 8	1989	
16076	No Data Available												Gray	Coast Guard Deck Gray	Unk	7, 8	1994	
16081	6.21	6.53	7.45	6.88	6.47	2.24	6.26	6.54	4.26				Gray	Dark Gray, ANA 513	1, 4, 11, 39	7, 8	1989	
16099	7.29	7.67	10.35	7.75	7.45	3.10	7.23	7.56	5.92				Gray	Coast Guard Blue Gray	1, 4, 11, 14, 39	7, 8	1989	
16160	15.13	15.12	8.13	19.03	16.18	2.88	16.09	16.11	4.57				Gray		1, 4, 9, 39	7, 8	1989	
16165	13.85	14.59	12.44	16.21	14.86	3.80	14.33	14.96	7.10				Gray		1, 9, 27, 39	7, 8	1989	
16187	15.97	16.92	26.00	17.41	16.62	6.12	16.13	16.93	11.56				Gray	Mechanic Gray Navy Standard	1, 11, 27, 39	7, 8	1989	
16250	No Data Available												Gray		Unk	7, 8	1994	
16251	21.92	22.65	26.54	24.41	22.55	7.99	22.02	22.67	15.18				Gray		1, 7, 27, 39	7, 8	1989	
16293	No Data Available												Gray		Unk	7, 8	1994	
16307	27.53	28.78	30.12	31.21	28.88	9.18	28.06	29.12	18.72				Gray	Machinery Gray	1, 11, 13, 39	7, 8	1989	
16314	27.78	29.16	32.94	31.08	28.95	10.02	28.00	29.12	18.72				Gray		1, 7, 11, 39	7, 8	1989	
16329	No Data Available												Gray		Unk	7, 8	1994	
16350	22.75	23.56	19.32	27.09	24.21	5.99	23.54	24.21	10.91				Gray		1, 4, 18, 39	7, 8	1989	

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FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
16357	33.37	34.70	32.10	38.98	35.26	9.86	34.23	35.24	18.25					Gray		1, 4, 9, 39	7, 8	1989
16360	36.33	37.60	33.98	42.58	38.36	10.45	37.32	38.41	19.24					Gray		1, 4, 8, 13, 16	7, 8	1989
16376	32.46	33.94	35.11	37.03	34.06	10.73	33.00	34.20	19.91					Gray		1, 6, 11, 13	7, 8	1989
16405	45.38	46.74	41.86	53.41	47.83	12.83	46.57	47.75	23.79					Gray	Parchment	1, 4, 8, 13	7, 8	1989
16440	42.16	43.58	46.64	48.03	43.81	14.19	42.60	43.85	26.53					Gray	Light Gray 85285, 81352	1, 8, 13, 18	7, 8	1989
16473	36.31	38.35	44.88	40.08	37.82	13.60	36.49	38.23	25.56					Gray	Aircraft Gray, NASA, ANA 512	1, 4, 11, 22, 39	7, 8	1989
16480	No Data Available													Gray	Canada 501-109	Unk	7, 8	1994
16492	47.73	49.24	53.79	54.18	49.41	16.32	48.14	49.44	30.67					Gray	Dawn Gray	1, 4, 39	7, 8	1989
16515	51.03	52.71	61.08	57.10	52.54	18.45	51.21	52.68	34.90					Gray	Boeing Gray 707	1, 6, 7, 39	7, 8	1989
16555	50.29	51.91	43.44	59.94	53.34	13.44	51.82	53.05	24.61					Gray		1, 2, 4, 13	7, 8	1989
17038	0.34	0.35	0.44	0.38	0.35	0.13	0.34	0.35	0.25					Misc	OSHA Black, ANA 515, 622	1, 7, 18, 39	7, 8	1989
17043	18.57	19.14	7.26	23.75	20.52	2.37	20.04	20.50	4.10					Misc		1, 13, 14, 39, 47	7, 8	1989
17100	10.36	7.38	16.70	11.99	8.02	4.74	8.67	6.75	9.78					Misc		1, 10, 12, 18	7, 8	1989
17142	19.16	12.68	21.90	24.85	14.94	6.19	15.77	11.34	12.91					Misc	OSHA Safety Purple	1, 4, 10, 22, 39	7, 8	1989
17155	20.19	14.03	27.05	25.26	15.84	7.70	16.21	12.21	15.88					Misc	OSHA Safety Purple	1, 10, 14, 22, 39	7, 8	1989
17178	27.71	28.40	34.48	30.74	28.25	10.36	27.70	28.34	19.73					Misc	Silver/ Aluminum Int'l	6, 39, 46	7, 8	1989
17773	73.15	76.70	84.35	82.47	76.39	25.67	73.65	76.58	48.07					Misc	Blue White	1, 7, 8, 39	7, 8	1989
17778	74.71	77.20	72.90	87.21	78.50	22.32	76.27	78.27	41.49					Misc		1, 4, 7, 39	7, 8	1989
17855	73.73	76.16	63.64	87.88	78.26	19.71	75.96	77.92	36.04					Misc		1, 4, 7, 39	7, 8	1989
17860	77.96	80.61	89.24	88.15	80.71	27.06	79.37	80.81	50.75	75.60	80.63	82.13	93.00	Misc	Coast Guard White	Unk	1	2007
17865				85.39	77.42	27.48	79.79	77.63	53.90	73.17	77.71	83.59	Gloss	Misc	Hawker Beechcraft White 17865	Unk	4	2007
17875	80.18	82.62	92.32	90.68	82.75	28.01	80.64	82.78	52.65					Misc	Insignia White, ANA 511	1, 4, 5, 6	7, 8	1989
17877	No Data Available													Misc	Coast Guard White	1, 6, 7, 39	7, 8	1989
17886	81.82	84.16	87.02	94.19	84.99	26.56	82.78	84.72	49.46					Misc	Bone White	1, 4, 7, 39	7, 8	1989
17925	86.84	88.87	99.16	98.54	89.29	30.07	87.31	89.11	56.57					Misc	Untinted White	1	7, 8	1989
20040	3.83	3.66	2.67	4.73	3.92	0.83	4.05	3.89	1.51					Brown		1, 4, 5, 39	7, 8	1989
20045	6.38	5.87	5.63	7.81	6.26	1.70	6.39	5.97	3.22					Brown		1, 4, 9, 39	7, 8	1989
20059	5.33	4.80	3.61	6.71	5.26	1.09	5.52	5.07	2.07					Brown	Forest Service Sign Standard	1, 9, 24, 27, 39	7, 8	1989
20061	6.61	5.07	4.00	8.83	5.98	1.17	6.49	5.32	2.33					Brown		1, 6, 14, 16	7, 8	1989
20062	4.87	4.57	4.24	5.89	4.84	1.28	4.98	4.73	2.42					Brown		1, 7, 9, 39	7, 8	1989
20065				9.99	8.49	2.36	8.45	8.25	4.39	8.08	8.19	7.09	21.00	Brown	Brown 356	Unk	3	2007
20070				10.75	9.20	2.21	9.05	8.95	4.06	8.57	8.84	6.59	20.00	Brown	Madeira 1957	Unk	3	2007
20090				12.33	10.12	2.01	10.43	9.98	3.80	9.64	9.34	6.09	17.00	Brown	Highland 480	Unk	3	2007
20095	11.75	11.49	8.18	14.59	12.21	2.55	12.20	11.96	4.63					Brown		1, 7, 13, 16, 23	7, 8	1989
20100	12.48	9.85	3.55	17.43	11.84	1.12	12.82	10.57	2.01					Brown		1, 7, 9, 23	7, 8	1989
20109	11.58	8.43	4.12	16.26	10.42	1.25	11.61	8.99	2.36					Brown	F.S. Seminal Brown	1, 6, 9, 14	7, 8	1989
20117	11.88	10.25	5.29	15.74	11.69	1.65	12.43	11.02	3.00					Brown		1, 4, 9, 39	7, 8	1989
20122	8.80	7.77	3.75	11.58	8.80	1.16	9.31	8.39	2.15					Brown		1, 5, 7, 27, 39	7, 8	1989
20140	13.88	12.99	9.42	17.35	14.04	2.90	14.48	13.69	5.35					Brown		1, 4, 15, 39	7, 8	1989
20150				17.67	14.57	3.21	14.43	13.89	5.87	13.73	13.77	9.52	19.00	Brown	Coyote 476/498	Unk	3	2007
20152	12.69	8.52	3.58	18.38	11.01	1.07	12.45	9.02	2.06					Brown		1, 6, 10, 15, 22	7, 8	1989
20160				18.04	13.33	2.61	13.45	11.86	4.69	13.23	12.03	7.66	21.00	Brown	Light Brown 493	Unk	3	2007
20170				20.07	16.77	4.04	16.62	16.09	7.48	15.83	15.97	12.06	21.00	Brown	Olive Mohave	Unk	3	2007
20180				20.97	18.12	4.53	17.96	17.80	8.39	16.88	17.44	13.53	25.00	Brown	Tan 499	Unk	3	2007
20206	21.28	19.16	17.96	26.19	20.68	5.41	21.63	19.82	10.26					Brown		1, 15, 23, 39	7, 8	1989
20219	19.67	18.53	12.76	24.67	20.06	3.89	20.52	19.53	7.30					Brown		1, 15, 27, 39	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
20220				26.47	22.23	5.73	22.07	21.37	10.68	21.08	21.28	17.16	19.00	Brown	Light Coyote 481	Unk	3	2007
20227	23.76	22.84	18.30	28.09	24.26	25.57	24.56	23.77	10.46					Brown		1, 9, 13, 27, 39	7, 8	1989
20233	23.62	20.37	15.75	30.27	22.72	4.78	24.17	21.39	8.98					Brown		1, 4, 9, 39	7, 8	1989
20252	26.85	22.40	14.00	35.56	25.69	4.29	27.54	23.76	7.97					Brown	Rose	1, 4, 14, 16, 23	7, 8	1989
20260	40.59	39.96	18.32	52.51	43.33	5.93	42.78	42.15	10.26					Brown		1, 4, 7, 13	7, 8	1989
20266	25.66	25.27	10.39	33.05	27.52	3.31	27.44	27.20	5.89					Brown		1, 4, 7, 9, 13	7, 8	1989
20270				33.77	28.61	8.64	28.65	27.64	16.41	27.57	27.68	26.17	30.00	Brown	Urban Tan 478	Unk	3	2007
20313	30.82	29.60	25.74	37.34	31.26	7.80	31.68	30.65	4.71					Brown		1, 4, 9, 39	7, 8	1989
20318	30.38	30.66	24.00	36.75	31.96	7.43	31.48	31.74	13.57					Brown		1, 4, 9, 39	7, 8	1989
20372	34.61	34.73	29.46	41.54	36.07	9.09	35.66	35.76	16.67					Brown	Tan	1, 4, 23, 39	7, 8	1989
20400	39.53	37.13	20.61	50.71	40.69	6.45	41.50	39.57	11.64					Brown		1, 4, 9, 13	7, 8	1989
20450	42.24	41.00	33.93	51.48	43.26	10.41	43.46	42.45	19.25					Brown		1, 4, 9, 39	7, 8	1989
20460	No Data Available													Brown	Mushroom	Unk	7, 8	1994
20475	No Data Available													Brown	Saudi Color #11, (SANG)	1, 4, 9, 39	7, 8	1989
21105	18.13	8.80	1.37	29.92	13.75	0.42	14.10	7.49	0.79					Red		1, 12, 22, 39	7, 8	1989
21136	13.87	7.51	1.86	21.87	10.98	0.56	12.09	7.20	1.08					Red		1, 7, 10, 22, 39	7, 8	1989
21158	24.85	15.81	11.35	35.71	20.52	3.32	23.27	15.89	6.57					Red		1, 5, 18, 22, 27	7, 8	1989
21302	24.99	14.80	4.64	37.87	20.50	1.39	23.51	15.13	2.68					Red		1, 12, 15, 39	7, 8	1989
21310	No Data Available													Red		1, 12, 15, 39	7, 8	1989
21400	28.43	16.42	3.00	43.33	23.28	0.88	27.45	17.49	1.77					Red		1, 16, 22, 39	7, 8	1989
21433	39.76	35.39	26.59	50.50	39.01	8.09	40.97	37.20	15.20					Red		1, 4, 15, 39	7, 8	1989
21575	55.92	52.22	43.77	69.35	55.96	13.40	56.98	53.80	27.84					Red		1, 4, 14, 23	7, 8	1989
21643	65.54	64.68	55.42	79.20	67.57	16.96	67.12	66.25	31.60					Red		1, 7, 9, 39	7, 8	1989
21667	64.93	64.10	50.70	79.55	67.37	15.63	66.61	65.76	28.85					Red		1, 7, 9, 27, 39	7, 8	1989
21668	67.08	64.27	64.92	80.14	67.06	19.67	67.53	65.09	37.07					Red		1, 13, 14, 27	7, 8	1989
21670	66.17	63.84	54.11	80.49	67.38	16.52	68.07	66.02	30.87					Red		1, 4, 15, 39	7, 8	1989
22144	18.64	12.71	4.04	27.08	16.41	1.25	18.65	13.67	2.31					Orange		1, 4, 9, 15	7, 8	1989
22190	29.00	16.11	1.79	45.39	23.39	0.57	26.56	16.31	1.03					Orange		1, 5, 15, 16	7, 8	1989
22203	24.68	17.19	5.02	35.48	22.00	1.55	25.35	18.87	2.86					Orange		1, 4, 15, 39	7, 8	1989
22246	33.32	21.56	3.50	33.29	21.54	3.51	32.42	22.68	2.01					Orange		1, 8, 15, 16, 27, 39	7, 8	1989
22276	30.94	23.65	11.61	42.45	28.53	3.54	31.97	25.70	6.63					Orange		1, 7, 9, 16, 39	7, 8	1989
22356	38.37	29.47	16.63	52.69	35.27	5.01	38.54	31.01	9.56					Orange		1, 9, 15, 27	7, 8	1989
22473	No Data Available													Orange		Unk	7, 8	1994
22510	48.28	32.03	2.48	71.25	42.63	0.83	50.22	36.06	1.45					Orange		1, 9, 16, 27	7, 8	1989
22516	43.90	38.10	20.57	58.26	43.26	6.34	45.07	40.29	11.76					Orange	Light Orange Brown	1, 9, 13, 27	7, 8	1989
22519	50.66	48.09	37.03	62.96	51.51	11.33	52.02	49.89	21.10					Orange	Rosewood	1, 4, 9, 39	7, 8	1989
22544	50.11	41.09	10.56	70.30	48.93	3.40	51.53	43.92	6.06					Orange		1, 7, 12, 14, 27, 39	7, 8	1989
22563	52.98	51.65	39.40	65.33	54.75	12.16	54.61	53.56	22.35					Orange	Beachwood	1, 4, 13, 14	7, 8	1989
22630	59.48	57.39	44.69	73.45	60.97	13.76	61.12	59.39	25.35					Orange	Buff	1, 4, 7, 9, 39	7, 8	1989
22648	62.82	60.56	45.32	77.75	64.53	13.99	65.06	63.11	25.67					Orange	Buff	1, 4, 9, 39	7, 8	1989
23275	No Data Available													Yellow		1, 4, 7, 9, 16, 39	7, 8	1989
23420				21.25	18.92	5.45	18.59	18.75	10.22	17.61	18.56	16.40	31.00	Yellow	Khaki 475	Unk	3	2007
23430				32.58	28.48	7.38	28.13	28.08	13.70	26.45	27.60	22.06	19.00	Yellow	Khaki P1	Unk	3	2007
23440				33.74	29.68	7.80	29.25	29.31	14.57	27.52	28.85	23.38	19.00	Yellow	Light Khaki 494	Unk	3	2007
23448	36.23	36.30	23.47	44.81	38.43	7.34	38.12	38.23	13.23					Yellow		1, 4, 23, 39	7, 8	1989
23522	48.16	48.63	39.90	58.14	50.50	12.34	49.51	49.83	22.61					Yellow		1, 4, 8, 10, 14	7, 8	1989
23525				53.98	47.61	15.05	47.55	47.12	28.65	45.22	46.73	45.66	15.00	Yellow	Desert Sand 500/503	Unk	3	2007
23530				46.78	40.40	12.73	40.34	39.39	24.26	38.74	39.44	38.63	13.00	Yellow	Light Tan 479	Unk	3	2007
23531	50.97	50.98	42.79	61.32	53.06	13.15	52.40	52.48	24.30					Yellow	Light Mushroom Navy	1, 7, 8, 10, 16	7, 8	1989
23538	54.57	48.94	5.94	74.69	56.74	2.05	59.14	54.83	3.46					Yellow		1, 14, 27, 39	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.



FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
23540	No Data Available													Yellow		1, 4, 5, 7	7, 8	1989
23564	56.55	58.16	41.52	68.71	60.55	12.94	59.04	60.42	23.49					Yellow		1, 4, 7, 39	7, 8	1989
23578	55.23	56.50	44.50	66.64	58.54	13.74	57.00	57.95	25.32					Yellow		1, 7, 13, 16	7, 8	1989
23594	60.02	59.34	31.01	76.34	63.85	9.83	63.37	62.76	17.53					Yellow		1, 4, 7, 9, 39	7, 8	1989
23613	61.68	60.88	43.37	76.15	64.46	13.44	64.04	63.44	24.57					Yellow	Buff	1, 4, 7, 13, 15	7, 8	1989
23617	57.06	57.58	49.01	68.44	59.63	15.10	58.53	58.95	27.80					Yellow		1, 4, 7, 9, 13	7, 8	1989
23619	59.79	60.03	42.92	73.52	63.09	13.36	62.02	62.17	24.80					Yellow		1, 7, 23, 27	7, 8	1989
23640				77.22	61.01	2.97	61.97	8.77	4.42	55.48	54.03	7.44	24.00	Yellow	Yellow 13655	Unk	3	2007
23655	61.00	59.62	5.57	81.91	66.95	2.16	67.20	66.80	3.17					Yellow		1, 4, 7, 27	7, 8	1989
23685	66.25	71.07	47.00	79.95	73.12	14.79	69.87	73.76	26.61					Yellow		1, 4, 6, 7, 31	7, 8	1989
23690	63.78	64.97	52.12	76.79	67.36	16.12	65.86	66.85	29.54					Yellow		1, 4, 7, 9, 13	7, 8	1989
23695	64.05	64.39	31.37	81.48	69.05	10.01	67.95	68.17	17.75					Yellow	Forest Service Sign Standard	1, 4, 7, 9, 39	7, 8	1989
23697	63.93	65.11	32.56	81.06	69.37	10.43	67.95	68.45	18.41					Yellow	Sunglow	1, 4, 7, 9, 13	7, 8	1989
23711	67.73	68.12	51.36	82.49	71.31	15.87	70.18	70.56	29.17					Yellow		1, 4, 7, 9, 39	7, 8	1989
23717	67.33	68.58	55.20	80.98	71.09	16.97	69.39	70.44	31.46					Yellow		1, 7, 9, 13, 27	7, 8	1989
23722	65.05	66.71	48.53	79.63	69.42	15.15	67.23	68.25	27.54					Yellow		1, 7, 9, 13	7, 8	1989
23727	68.25	70.92	48.53	83.73	73.67	15.42	71.08	72.97	27.18					Yellow		1, 4, 7, 9, 11, 13	7, 8	1989
23785	59.96	63.17	14.75	78.22	68.06	5.11	65.15	67.96	8.36					Yellow		1, 7, 27, 39	7, 8	1989
23793	70.76	76.22	36.97	88.94	79.50	12.32	75.28	79.27	20.44					Yellow		1, 4, 7, 39	7, 8	1989
23814	65.25	72.21	43.78	78.98	73.76	14.12	69.18	74.72	24.45					Yellow		1, 4, 7, 8	7, 8	1989
24052	3.95	4.29	3.70	4.56	4.31	1.15	4.11	4.39	2.09					Green	Marine Green #23	1, 4, 15, 39	7, 8	1989
24064	4.59	4.85	3.87	5.44	4.96	1.20	4.79	5.01	2.18					Green		1, 4, 9, 39	7, 8	1989
24070				5.60	5.48	1.93	5.26	5.60	3.58	4.96	5.61	5.82	28.00	Green	Army Green 491	Unk	3	2007
24079	6.01	6.54	5.30	7.01	6.60	1.65	6.34	6.72	3.00					Green		1, 7, 11, 15, 39	7, 8	1989
24084	3.06	3.16	2.19	3.73	3.29	0.69	3.22	3.29	1.25					Green		1, 24, 27, 39	7, 8	1989
24091	8.13	8.17	8.56	9.35	8.32	2.59	8.27	8.33	4.89					Green		1, 9, 27, 39	7, 8	1989
24097	8.35	9.68	6.56	9.75	9.65	2.09	8.88	9.93	3.69					Green		1, 7, 13, 27, 31, 39	7, 8	1989
24098	8.40	9.28	4.64	10.32	9.59	1.48	8.98	9.67	2.64					Green		1, 7, 27, 39	7, 8	1989
24108	6.30	8.66	7.34	6.69	7.99	2.42	6.61	8.44	4.00					Green		1, 7, 11, 39	7, 8	1989
24109				9.31	8.91	2.68	7.97	8.66	4.78	7.76	9.16	7.86	19.00	Green	Dark Green 355	Unk	3	2007
24110				11.33	10.76	3.69	9.83	10.48	6.70	9.64	11.08	10.95	18.00	Green	Green 474	Unk	3	2007
24120				11.91	10.84	3.04	10.17	10.57	5.55	9.78	10.81	9.03	16.00	Green	Marine OD Green	Unk	3	2007
24148	11.64	13.35	16.57	12.08	12.65	5.06	11.75	13.14	9.40					Green		1, 4, 11, 39	7, 8	1989
24158	12.83	14.08	16.69	13.86	13.66	5.08	12.89	13.94	9.46					Green		1, 8, 13, 39	7, 8	1989
24159	14.34	15.66	15.05	16.47	15.53	4.73	14.63	15.59	8.40					Green		1, 7, 31, 39	7, 8	1989
24165				15.55	14.39	5.10	14.17	14.48	9.70	13.51	14.46	15.53	16.00	Green	Foliage Green 502/504	Unk	3	2007
24172	12.81	15.04	12.89	14.26	14.67	4.03	13.45	15.29	7.42					Green		1, 4, 11, 39	7, 8	1989
24190	No Data Available													Green		1, 11, 26, 27	7, 8	1989
24201	18.23	18.95	14.11	21.79	19.59	4.39	19.27	19.81	7.96					Green		1, 4, 9, 31, 39	7, 8	1989
24210				19.41	16.90	3.97	16.50	16.55	7.31	15.53	16.31	11.80	24.00	Green	Light Green 354	Unk	3	2007
24226	19.41	21.60	20.55	21.91	21.31	6.37	19.91	21.71	11.58					Green		1, 7, 8, 13	7, 8	1989
24227	18.34	21.84	16.52	20.64	21.42	5.16	19.43	22.39	9.37					Green		1, 11, 16, 27, 39	7, 8	1989
24233	21.70	24.07	28.66	23.34	23.23	8.75	21.74	23.72	16.25					Green		1, 7, 11, 39	7, 8	1989
24241	25.35	29.13	32.14	27.23	27.95	9.92	25.85	28.90	18.16					Green		1, 4, 6, 31, 39	7, 8	1989
24260	19.08	25.04	22.93	20.02	23.32	7.27	19.77	24.66	12.79					Green		1, 4, 7, 11, 39	7, 8	1989
24272	19.22	24.44	20.77	20.87	23.15	6.67	20.19	24.35	11.52					Green	MIL-P-24441 Primer	1, 4, 6, 7, 11, 13	7, 8	1989
24277	24.20	27.02	30.26	26.30	26.19	9.27	24.45	26.79	17.13					Green		1, 4, 6, 31, 39	7, 8	1989
24300	25.37	29.27	30.15	27.44	28.25	9.32	26.17	29.41	16.99					Green		1, 4, 11, 39	7, 8	1989
24325	25.56	31.18	32.94	26.80	29.38	10.27	26.32	30.92	18.47					Green		1, 4, 11, 39	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
24373	31.47	35.52	31.47	35.52	35.08	9.78	32.73	36.13	17.75					Green		1, 4, 11, 39	7, 8	1989
24410	36.09	40.02	41.05	40.05	39.24	12.63	37.06	40.14	23.29					Green		1, 4, 7, 31, 39	7, 8	1989
24417	37.94	41.28	39.33	43.04	41.07	12.11	39.25	41.84	22.34					Green		1, 4, 7, 11, 13, 39	7, 8	1989
24424	37.43	40.29	36.10	43.14	40.49	11.17	38.95	41.11	20.45					Green		1, 4, 7, 13, 31	7, 8	1989
24432	38.27	41.25	40.08	43.50	41.12	12.33	39.37	41.75	22.72					Green		1, 7, 11, 13	7, 8	1989
24441	38.48	42.67	37.76	43.97	42.41	11.78	39.98	43.32	21.26					Green		1, 4, 7, 11, 13	7, 8	1989
24449	35.61	41.04	34.64	40.25	40.37	10.83	37.20	41.66	19.52					Green		1, 4, 7, 11, 39	7, 8	1989
24466	36.80	42.22	39.20	40.90	41.29	12.02	37.88	42.45	22.32					Green		1, 8, 13, 27	7, 8	1989
24491	40.62	45.80	46.26	44.94	44.72	14.25	41.46	45.82	26.18					Green		1, 4, 6, 9, 31	7, 8	1989
24504	40.47	45.16	41.77	45.67	44.62	12.93	41.89	45.73	23.64					Green		1, 4, 7, 11, 39	7, 8	1989
24516	44.07	48.40	49.28	49.35	47.69	15.16	44.90	48.47	27.93					Green	Clipper Blue	1, 6, 7, 11, 39	7, 8	1989
24518	41.30	45.70	45.56	46.18	44.99	13.98	42.21	45.85	25.86					Green		1, 4, 8, 13	7, 8	1989
24525	43.46	48.28	44.24	49.13	47.83	13.70	45.08	49.11	24.97					Green		1, 4, 11, 39	7, 8	1989
24533	38.95	44.29	34.09	45.19	44.10	10.78	40.68	45.08	19.11					Green	Seafoam Green, Navy	1, 4, 7, 8, 39	7, 8	1989
24552	49.23	54.33	30.28	59.30	55.90	9.48	52.71	57.33	17.27					Green		1, 7, 11, 27, 39	7, 8	1989
24554	57.56	61.46	54.57	67.35	62.10	16.93	59.56	62.47	30.86					Green		1, 7, 13, 31	7, 8	1989
24558	49.17	55.21	48.91	56.31	54.57	15.39	50.78	55.43	27.43					Green		1, 11, 26, 39	7, 8	1989
24583	55.26	62.53	53.46	52.21	48.78	12.75	46.37	49.26	23.18					Green		1, 4, 7, 11, 39	7, 8	1989
24585	59.54	66.91	63.69	67.06	65.73	19.86	61.23	67.07	35.84					Green	Postal Green	1, 7, 11, 39	7, 8	1989
24664	53.76	60.32	58.08	60.46	59.22	18.06	55.18	60.34	32.78					Green		1, 7, 11, 39	7, 8	1989
24670	60.56	65.34	66.34	68.35	64.84	20.40	61.88	64.74	37.59					Green		1, 4, 11, 26, 39	7, 8	1989
24672	60.05	65.01	59.14	69.08	65.08	18.27	61.95	65.84	33.55					Green		1, 7, 13, 31	7, 8	1989
25042	2.56	2.75	4.24	2.59	2.60	1.27	2.49	2.66	2.42					Blue	Blue Sea, ANA 606	1, 8, 27, 39	7, 8	1989
25045	2.58	2.76	5.79	2.29	2.46	1.71	2.37	2.54	3.32					Blue		1, 8, 18, 27	7, 8	1989
25048	No Data Available													Blue		Unk	7, 8	1989
25050				5.05	4.46	1.78	4.45	4.38	3.41	4.37	4.46	5.47	18.00	Blue	Army Blue 450	Unk	3	2007
25051	5.14	4.99	10.03	5.02	4.71	2.95	4.78	4.72	5.75					Blue		1, 8, 14, 39	7, 8	1989
25052	No Data Available													Blue		1, 6, 11, 12	7, 8	1989
25053	4.17	4.24	10.32	3.51	3.74	3.02	3.77	3.88	5.95					Blue	Royal Blue	1, 8, 11, 12, 22	7, 8	1989
25056	3.61	2.41	14.46	2.08	1.86	4.09	2.65	1.90	8.37					Blue		1, 6, 11, 18	7, 8	1989
25060				5.87	5.35	3.67	5.60	5.30	6.73	5.73	5.71	11.18	20.00	Blue	Army Blue 451	Unk	3	2007
25095	No Data Available													Blue		1, 6, 11, 18	7, 8	1989
25102	7.94	8.26	23.24	5.95	6.91	6.81	6.80	7.19	13.35					Blue		1, 8, 9, 18	7, 8	1989
25109	10.75	11.79	22.15	9.92	10.65	6.58	10.05	10.97	12.70					Blue		1, 8, 9, 18	7, 8	1989
25177	15.02	15.64	30.13	14.10	14.40	8.91	14.20	14.82	17.26					Blue		1, 7, 8, 22	7, 8	1989
25183	13.95	14.96	42.16	10.33	12.32	12.46	11.72	12.70	24.06					Blue		1, 7, 8, 18	7, 8	1989
25184	14.92	17.16	32.36	13.27	15.17	9.74	14.05	15.90	18.36					Blue		1, 8, 9, 14	7, 8	1989
25185	No Data Available													Blue		Unk	7, 8	1994
25189	17.85	19.50	28.00	18.35	18.48	8.43	17.45	18.86	15.97					Blue		1, 8, 13, 14	7, 8	1989
25190	18.78	20.99	37.86	17.54	18.97	11.34	17.61	19.49	21.59					Blue		1, 8, 13, 18	7, 8	1989
25193	16.22	19.46	29.31	15.67	17.61	9.05	15.73	18.32	16.38					Blue		1, 8, 11, 18, 39	7, 8	1989
25200	No Data Available													Blue		Unk	7, 8	1994
25230	No Data Available													Blue	Electrical Blue	1, 6, 11, 18	7, 8	1989
25237	21.01	22.26	29.30	22.45	21.62	8.81	20.87	21.94	16.74					Blue		1, 11, 16, 18, 39	7, 8	1989
25240	25.44	26.03	49.77	24.65	24.20	14.68	23.44	24.26	38.61					Blue		1, 8, 10, 16	7, 8	1989
25299	24.54	29.61	36.30	25.11	27.53	11.23	24.61	28.67	20.43					Blue		1, 7, 10, 11, 39	7, 8	1989
25352	28.33	31.38	37.74	30.36	30.26	11.51	28.48	30.98	21.42					Blue		1, 7, 8, 23	7, 8	1989
25414	32.63	36.39	44.98	34.75	34.88	13.77	32.54	35.67	25.39					Blue		1, 4, 6, 31, 39	7, 8	1989
25440	No Data Available													Blue	Admiral Blue	Unk	7, 8	1994
25488	42.28	44.67	72.79	42.59	42.12	21.80	40.57	42.72	41.52					Blue		1, 4, 8, 18	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
25526	47.15	49.77	65.20	50.70	48.44	19.65	46.66	48.95	37.23					Blue	Pastel Blue	1, 6, 11, 39	7, 8	1989
25530	No Data Available													Blue	Carl Vinson Blue	Unk	7, 8	1994
25550	63.98	67.16	86.52	69.48	65.68	26.13	63.23	66.07	49.31					Blue		1, 6, 31, 39	7, 8	1989
25622	60.71	64.02	71.01	38.38	63.58	21.63	60.55	63.56	40.36					Blue		1, 4, 6, 16	7, 8	1989
25630	64.59	66.49	74.11	72.99	66.64	22.46	65.09	66.77	42.25					Blue		1, 4, 31, 39	7, 8	1989
26008	6.28	6.51	8.43	6.81	6.40	2.53	6.26	6.46	4.82					Gray	Exterior Deck Gray	1, 10, 11, 39	7, 8	1989
26044	3.35	3.50	5.24	3.45	3.35	1.56	3.31	3.44	3.00					Gray		1, 11, 22, 39	7, 8	1989
26081	6.90	7.22	8.64	7.58	7.14	2.61	6.93	7.21	4.94					Gray	Sea Plane Gray, ANA 625	1, 4, 11, 39	7, 8	1989
26099	No Data Available													Gray		1, 4, 11, 14, 39	7, 8	1989
26118	No Data Available													Gray		1, 8, 18, 39	7, 8	1989
26120	6.49	6.22	5.41	7.84	6.58	1.64	6.73	6.49	3.08					Gray		1, 4, 9, 39	7, 8	1989
26122	10.79	10.89	12.33	12.21	10.98	3.72	10.86	10.96	7.04					Gray		1, 7, 9, 39	7, 8	1989
26132	12.12	12.47	15.20	13.44	12.38	4.58	12.07	12.40	8.67					Gray	Slate Gray	1, 4, 22, 39	7, 8	1989
26134	12.78	13.25	14.42	14.45	13.28	4.36	12.93	13.35	8.23					Gray	Gray, Filing Cabinet	1, 4, 9, 39	7, 8	1989
26152	13.53	14.13	17.52	14.78	13.92	5.27	13.54	14.07	10.01					Gray		1, 11, 27, 39	7, 8	1989
26173	17.92	18.40	24.38	19.52	18.10	7.32	17.63	18.11	13.92					Gray	Ocean Gray, NAVSEA	1, 6, 9, 39	7, 8	1989
26176	16.14	16.76	23.88	17.06	16.25	7.16	15.86	16.43	13.63					Gray	Ocean Gray	1, 8, 10, 39	7, 8	1989
26187	16.69	17.57	21.76	18.24	17.24	6.58	16.65	17.39	12.41					Gray		1, 11, 27, 39	7, 8	1989
26231	21.02	21.81	26.67	23.20	21.56	8.05	21.00	21.67	15.22					Gray		1, 6, 7, 39	7, 8	1989
26250	22.15	23.30	27.32	24.50	23.02	8.28	22.23	23.21	15.56					Gray		1, 4, 11, 39	7, 8	1989
26251	23.42	24.08	28.27	26.37	24.01	8.56	23.19	23.83	16.08					Gray		1, 7, 27, 39	7, 8	1989
26255				24.63	24.45	9.29	22.28	22.28	17.94	21.78	22.74	28.50	16.9	Gray	Dark Gray 509	Unk	3	2007
26260				25.47	23.37	8.20	23.17	23.50	15.70	22.05	23.38	25.00	26.00	Gray	Urban Gray 501/505	Unk	3	2007
26270	24.00	24.86	30.69	26.41	24.57	9.25	23.96	24.71	17.53					Gray	Interior Haze Gray	1, 6, 7, 39	7, 8	1989
26280	25.39	26.38	30.11	28.46	26.26	9.13	25.51	26.36	17.14					Gray		1, 8, 13, 14	7, 8	1989
26290				29.84	27.22	10.97	27.02	27.07	21.20	26.29	27.51	33.63	18.00	Gray	Gray 26270	Unk	3	2007
26293	26.81	27.69	33.22	29.78	27.49	10.03	26.80	27.57	18.95					Gray		1, 6, 23, 31	7, 8	1989
26300				38.46	34.71	14.74	34.68	34.32	28.57	34.02	35.11	45.25	22.6	Gray	Gray 510	Unk	3	2007
26306	27.60	27.78	27.38	32.28	28.44	8.34	28.11	28.28	15.61					Gray	Sand Gray	1, 11, 13, 14	7, 8	1989
26307	27.19	28.38	29.42	30.97	28.50	8.97	27.62	28.67	16.72					Gray	Bulkhead Machinery Gray #30	1, 11, 13, 39	7, 8	1989
26314	27.65	29.01	33.44	30.83	28.73	10.18	27.78	28.88	18.98					Gray		1, 7, 11, 39	7, 8	1989
26329	29.39	31.59	38.98	31.71	30.74	11.81	29.45	31.29	22.19					Gray		1, 6, 11, 23	7, 8	1989
26357	32.77	34.04	33.48	37.78	34.41	10.23	33.48	34.54	19.01					Gray		1, 4, 9, 39	7, 8	1989
26360	36.14	37.49	34.29	42.24	38.18	10.54	37.18	38.27	19.43					Gray		1, 4, 8, 13, 16	7, 8	1989
26373	36.05	37.24	44.67	40.07	36.98	13.47	35.98	37.05	25.51					Gray	Light Gray #37	1, 6, 13, 39	7, 8	1989
26380				40.40	36.91	15.63	36.62	36.60	30.25	35.88	37.50	47.94	16.9	Gray	Medium Gray 508	Unk	3	2007
26400	52.41	54.15	47.17	61.77	55.46	14.51	54.00	55.58	26.73					Gray	Yellow Gray	1, 4, 8, 9	7, 8	1989
26405	42.91	44.19	40.07	50.39	45.17	12.32	44.10	45.17	22.68					Gray		1, 4, 8, 13	7, 8	1989
26408	46.01	47.80	48.46	52.74	48.19	14.77	46.86	48.41	27.62					Gray		1, 4, 8, 13	7, 8	1989
26420	No Data Available													Gray	DLA	Unk	7, 8	1994
26424	45.80	46.36	47.46	53.16	47.19	14.47	46.33	46.87	26.95					Gray		1, 8, 10, 13	7, 8	1989
26440	40.81	42.11	45.99	46.32	42.26	13.96	41.14	42.29	26.20					Gray		1, 8, 13, 18	7, 8	1989
26480	No Data Available													Gray	Canada 501-109	Unk	7, 8	1994
26492	48.25	49.75	55.22	54.75	49.85	16.80	48.52	49.78	31.41					Gray		1, 4, 39	7, 8	1989
26493	47.21	48.56	56.62	52.91	48.46	17.12	47.27	48.50	32.30					Gray	Pearl Gray	1, 7, 14, 39	7, 8	1989
26496	41.81	43.67	45.28	47.62	43.84	13.84	42.49	44.12	25.63					Gray	Green Gray	1, 6, 13, 31	7, 8	1989
26521	49.00	49.30	47.45	57.44	50.62	14.50	50.20	50.44	26.90					Gray		1, 4, 9, 13	7, 8	1989
26555	52.02	53.73	45.20	61.84	55.17	13.97	53.74	55.05	25.62					Gray		1, 2, 4, 13	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
26559	50.56	52.54	52.21	58.41	53.05	15.99	51.35	52.99	29.64					Gray	Parchment	1, 7, 13, 39	7, 8	1989
26586	53.26	55.09	48.83	62.91	56.31	15.04	54.56	56.06	27.72					Gray		1, 7, 11, 13	7, 8	1989
26595	51.33	53.56	54.88	58.82	53.83	16.78	52.02	53.88	31.17					Gray		1, 7, 8, 13	7, 8	1989
26622	53.66	55.22	58.43	61.31	55.66	17.76	54.34	55.70	33.24					Gray		1, 4, 8, 13	7, 8	1989
26630				67.57	61.83	24.30	61.74	61.92	47.04	59.52	62.32	74.40	22.5	Gray	Light Gray 507	Unk	3	2007
27038	1.19	1.22	1.69	1.27	1.19	0.50	1.17	1.20	0.97					Misc	ANA 514	1, 7, 18, 39	7, 8	1989
27040	1.63	1.66	2.19	1.77	1.64	0.65	1.61	1.65	1.26					Misc	Filing Cabinet Black	1, 4, 9, 16, 39	7, 8	1989
27041				4.49	3.99	1.48	3.97	3.94	2.82	3.86	3.98	4.55	19.00	Misc	Black	Unk	3	2007
27043	21.05	21.66	8.83	26.86	23.18	2.85	22.55	23.08	4.99					Misc	Gold	1, 13, 14, 39, 47	7, 8	1989
27142	19.31	12.90	20.95	25.55	15.24	5.99	15.58	11.33	12.26					Misc		1, 4, 10, 22, 39	7, 8	1989
27144	17.06	13.70	52.20	19.61	14.42	7.28	15.09	12.83	14.64					Misc		1, 10, 14, 39	7, 8	1989
27160	No Data Available													Misc		1, 14, 18, 22	7, 8	1989
27222	68.94	70.89	72.72	79.34	71.70	22.14	69.93	71.63	41.41					Misc		1, 4, 13, 39	7, 8	1989
27769	65.90	67.46	61.65	77.49	69.07	18.88	67.51	68.87	35.06					Misc	Parchment	1, 4, 13, 39	7, 8	1989
27778	74.35	76.76	73.53	86.50	77.98	22.48	75.83	77.90	41.82					Misc	Candlelight	1, 4, 7, 39	7, 8	1989
27780	77.78	80.04	81.38	89.65	80.98	24.79	78.91	80.87	46.34					Misc		1, 4, 7, 39	7, 8	1989
27855	72.43	75.11	62.74	85.94	77.07	19.28	74.66	76.95	35.72					Misc		1, 4, 7, 39	7, 8	1989
27875	81.96	84.59	94.20	92.69	84.71	28.57	82.49	84.76	53.75					Misc	ANA 626	1, 4, 5, 6	7, 8	1989
27880	85.43	87.66	91.75	98.13	88.56	27.94	86.44	88.36	52.25					Misc		1, 13, 16, 27	7, 8	1989
27885				95.48	86.55	32.92	86.77	86.54	64.09	83.39	86.70	100.87	15.5	Misc	White 506	Unk	3	2007
27886	83.55	85.80	87.84	96.27	86.80	26.76	84.68	86.62	50.03					Misc		1, 4, 7, 39	7, 8	1989
27925	87.11	89.13	100.62	98.60	89.44	30.48	87.53	89.32	57.45					Misc		1	7, 8	1989
28913				69.47	34.28	0.57	40.44	22.79	0.99	43.11	22.39	1.64		Fluorescent		22, 42, 44	7, 8	1989
28915				96.00	51.69	0.75	63.50	39.60	1.22	61.87	35.67	2.03		Fluorescent		22, 42, 43, 45	7, 8	1989
30040	6.64	6.53	5.94	7.93	6.80	1.81	6.83	6.72	3.39					Brown		1, 4, 5, 39	7, 8	1989
30045	7.32	6.87	6.60	8.82	7.27	1.99	7.47	7.08	3.78					Brown		1, 4, 9, 39	7, 8	1989
30051	No Data Available													Brown	Brown 383 Camo	1, 7, 9, 13	7, 8	1989
30059	No Data Available													Brown		1, 9, 24, 27, 39	7, 8	1989
30097	8.27	8.04	6.40	10.12	8.51	1.95	8.50	8.33	3.66					Brown	Earth Brown CAMO	1, 7, 13, 16	7, 8	1989
30099	9.98	9.62	7.23	12.31	10.25	2.22	10.40	10.08	4.11					Brown	Earth Brown	1, 4, 23, 39	7, 8	1989
30108	7.60	6.86	5.02	9.54	7.52	1.52	7.96	7.31	2.87					Brown	Walnut Brown	1, 15, 16, 27, 39	7, 8	1989
30109	13.32	10.23	6.15	18.26	12.20	1.87	13.27	10.69	3.52					Brown	Dull Red, ANA 618	1, 10, 15, 27, 39	7, 8	1989
30111	10.56	8.99	7.04	13.61	10.08	2.13	10.71	9.39	4.02					Brown	Maroon Olympic Russet, Park Service Brown	1, 9, 13, 18	7, 8	1989
30117	13.22	11.74	7.13	17.10	13.12	2.20	13.84	12.56	4.06					Brown	Brown Int'l	1, 4, 9, 39	7, 8	1989
30118	11.34	11.17	6.84	14.20	11.95	2.12	11.90	11.78	3.90					Brown	Field Drab Camo, ANA 617	1, 13, 23, 27, 39	7, 8	1989
30140	13.82	12.81	8.82	17.58	13.94	2.78	14.39	13.40	4.92					Brown	Brown Int'l	1, 7, 9, 39	7, 8	1989
30145	14.89	14.10	9.06	18.80	15.28	2.81	15.57	14.90	5.13					Brown	Butternut Stain	1, 4, 9, 39	7, 8	1989
30160	11.70	8.74	8.55	15.42	10.26	2.50	11.42	8.93	4.96					Brown		1, 4, 22, 39	7, 8	1989
30166	13.35	10.46	6.97	18.03	12.32	2.11	13.41	10.97	3.98					Brown		1, 9, 18, 39	7, 8	1989
30206	21.28	19.07	17.47	26.61	20.66	5.29	21.10	19.40	9.96					Brown		1, 15, 23, 39	7, 8	1989
30215	18.56	16.56	8.66	24.43	18.60	2.68	19.22	17.57	4.95					Brown		1, 9, 13, 27	7, 8	1989
30219	21.58	20.31	14.47	27.09	21.94	4.46	22.38	21.30	8.19					Brown	Sierra Tan, ANA 628	1, 15, 27, 39	7, 8	1989
30227	23.94	22.93	18.96	29.33	24.33	5.81	24.64	23.78	10.77					Brown		1, 9, 13, 27, 39	7, 8	1989
30233	23.31	20.14	15.37	29.92	22.47	4.68	23.88	21.14	8.74					Brown		1, 4, 9, 39	7, 8	1989
30252	27.13	22.87	13.95	35.72	26.13	4.27	28.10	24.45	7.94					Brown	Rust Red	1, 4, 14, 16, 23	7, 8	1989
30257	32.70	30.88	15.19	42.27	33.96	4.75	34.56	33.00	8.67					Brown	Earth Yellow	1, 12, 13, 27	7, 8	1989
30266	26.40	26.03	11.62	33.79	28.26	3.66	28.16	27.97	6.62					Brown	Tan, ANA 615	1, 4, 7, 9, 13	7, 8	1989
30277	26.39	26.76	20.57	31.94	27.88	6.36	27.39	27.71	11.65					Brown	Sand	1, 4, 13, 39	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added	
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z							
30279	32.16	30.91	25.91	39.29	32.72	7.93	33.04	31.99	14.72					Brown	Desert Sand, ANA 616	1, 4, 9, 13	7, 8	1989	
30313	31.92	30.44	26.13	38.95	32.26	7.96	32.76	31.48	14.92					Brown	Desert Sand	1, 4, 9, 39	7, 8	1989	
30315	31.32	30.12	25.62	38.13	31.85	7.83	32.26	31.20	14.55					Brown	Desert Sand CAMO	1, 4, 22, 39	7, 8	1989	
30318	31.36	31.62	24.60	37.96	33.00	7.60	32.52	32.79	13.92					Brown		1, 4, 9, 39	7, 8	1989	
30324	32.31	31.31	26.52	39.12	33.02	8.05	33.38	32.51	15.17					Brown	Desert Sand	1, 9, 27, 39	7, 8	1994	
30372	33.79	33.94	28.82	40.41	35.24	8.84	34.85	35.03	16.36					Brown		1, 4, 23, 39	7, 8	1989	
30450	44.17	43.02	35.66	53.54	45.32	10.87	45.62	44.74	20.33					Brown	Beige	1, 4, 9, 39	7, 8	1989	
30475	No Data Available													Brown	Saudi Color #11, (SANG)	1, 4, 9, 39	7, 8	1989	
30480	No Data Available													Brown		Unk		7, 8	1994
31090	11.86	10.66	5.84	15.47	11.91	1.80	12.37	11.33	3.34					Red	Earth Red CAMO	1, 16, 24, 26, 27	7, 8	1989	
31136	16.48	10.19	5.09	24.83	13.63	1.52	14.49	9.75	2.93					Red	Red Int'l, CARC Aircraft				1989
31158	24.43	15.27	10.16	35.61	20.12	2.94	22.50	15.26	5.96					Red	Red, ANA 619	1, 7, 10, 22, 39	7, 8	1989	
31302	No Data Available													Red	Light Red Int'l	1, 5, 18, 22, 27	7, 8	1989	
31310	No Data Available													Red		1, 12, 15, 39	7, 8	1989	
31350	No Data Available													Red		1, 12, 15, 39	7, 8	1989	
31400	28.50	17.39	4.83	43.18	23.80	1.48	26.76	17.81	2.77					Red		1, 5, 10, 14, 22	7, 8	1989	
31433	39.29	32.25	26.78	49.80	38.70	8.18	40.38	36.94	15.23					Red		1, 16, 22, 39	7, 8	1989	
31575	54.56	50.93	41.76	67.71	54.69	12.79	55.93	52.84	23.81					Red		1, 4, 15, 39	7, 8	1989	
31638	59.31	51.41	51.74	73.72	56.11	15.49	59.20	52.53	29.68					Red		1, 4, 14, 23	7, 8	1989	
31643	63.92	62.92	54.45	76.98	65.76	16.64	65.67	64.80	31.04					Red		1, 4, 9, 22	7, 8	1989	
31667	65.47	64.53	51.24	80.12	67.85	15.78	67.27	66.35	29.20					Red	Tan	1, 7, 9, 27, 39	7, 8	1989	
31668	65.47	63.05	63.99	77.68	65.63	19.32	67.73	65.69	37.21					Red		1, 7, 9, 39	7, 8	1989	
31669	70.02	65.87	69.57	83.19	68.99	20.93	70.56	67.17	39.82					Red		1, 13, 14, 27	7, 8	1989	
31670	66.54	64.33	56.09	80.62	67.73	17.05	68.21	66.25	32.05					Red		1, 9, 22, 27	7, 8	1989	
32169	21.68	15.83	5.66	30.65	19.72	1.75	22.29	17.29	3.22					Orange		1, 4, 15, 39	7, 8	1989	
32246	37.70	25.27	5.76	55.90	33.10	1.81	36.76	26.65	3.30					Orange	Navy Torpedo	1, 7, 9, 27, 39	7, 8	1989	
32276	33.18	25.55	12.89	45.66	30.70	3.91	33.75	27.33	7.41					Orange		1, 8, 15, 16, 27, 39	7, 8	1989	
32356	38.43	29.57	16.91	52.67	35.35	5.15	38.78	31.32	9.66					Orange		1, 7, 9, 16, 39	7, 8	1989	
32473	40.26	30.05	8.96	56.95	37.22	2.81	41.84	32.93	5.13					Orange		1, 9, 15, 27	7, 8	1989	
32516	42.94	37.51	20.07	56.43	42.45	6.27	45.11	40.38	11.37					Orange		1, 14, 16, 27	7, 8	1989	
32540	*CIELAB													Orange		1, 9, 13, 27	7, 8	1989	
32544	52.60	43.35	14.38	72.56	51.21	4.52	54.68	46.83	8.30					2.5 Orange	Navair Flat Orange #1	Unk		6	2007
32555	56.56	49.83	17.12	76.05	57.15	5.38	60.01	54.25	9.89					Orange		1, 7, 12, 14, 27, 39	7, 8	1989	
32630	58.30	56.21	43.09	71.85	59.82	13.23	60.37	58.64	24.46					Orange		1, 15, 27, 39	7, 8	1989	
32648	62.84	60.84	44.13	77.80	64.86	13.59	65.29	63.68	25.08					Orange		1, 4, 7, 9, 39	7, 8	1989	
33070	7.97	8.31	6.27	9.66	8.57	1.97	8.23	8.45	3.56					Orange		1, 4, 9, 39	7, 8	1989	
33105	12.25	12.01	7.52	15.43	12.85	2.32	12.62	12.49	4.29					Yellow	Olive Drab CAMO	1, 6, 7, 13	7, 8	1989	
33245	26.01	24.23	11.73	33.73	26.81	3.69	27.52	26.08	6.63					Yellow	Field Drab Camo	1, 24, 27, 39	7, 8	1989	
33275	No Data Available													Yellow	Earth Yellow Camo	1, 4, 9, 13	7, 8	1989	
33303	30.56	31.08	23.27	37.32	32.41	7.22	31.26	31.95	13.14					Yellow		1, 4, 7, 9, 16, 39	7, 8	1989	
33434	41.06	38.75	12.83	53.97	43.23	4.08	44.04	42.42	7.34					Yellow	Sand Camo	1, 6, 9, 27	7, 8	1989	
33440	24.30	24.23	13.39	30.41	25.91	4.20	25.87	25.89	7.57					Yellow		1, 4, 23, 27	7, 8	1989	
33446	No Data Available													Yellow	Green Gold Stain	1, 4, 23, 39	7, 8	1989	
33448	37.42	37.51	24.67	46.18	39.66	7.68	39.30	39.45	13.95					Yellow	Tan 686A Camo	1, 4, 13, 15	7, 8	1989	
33481	43.14	44.88	13.48	56.13	48.28	4.62	46.54	47.90	7.55					Yellow		1, 4, 23, 39	7, 8	1989	
33510	No Data Available													Yellow		1, 4, 7, 13, 39	7, 8	1989	
33522	48.57	49.06	39.60	58.72	51.00	12.23	50.02	50.31	22.51					Yellow	Dark Sandstone Camo	1, 4, 7, 13	7, 8	1989	
33531	50.32	50.14	43.34	60.48	52.17	13.27	51.47	51.42	24.63					Yellow	Tan	1, 4, 8, 10, 14	7, 8	1989	
														Yellow	Sand	1, 7, 8, 10, 16	7, 8	1989	

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
33538	55.59	50.09	6.93	75.69	57.88	2.35	60.22	56.24	4.04					Yellow	Yellow Int'l, Traffic Yellow, ANA 614	1, 14, 27, 39	7, 8	1989
33564	54.27	56.15	39.61	66.25	58.37	12.37	56.31	57.82	22.46					Yellow		1, 4, 7, 39	7, 8	1989
33578	54.81	56.22	44.35	65.77	58.19	13.69	56.85	58.08	25.18					Yellow		1, 7, 13, 16	7, 8	1989
33613	62.13	61.32	43.92	76.96	64.89	13.62	64.41	63.40	25.01					Yellow		1, 4, 7, 13, 15	7, 8	1989
33617	59.89	60.13	53.19	71.76	62.22	16.31	60.97	61.16	30.29					Yellow	Sand, TT-P-47	1, 4, 7, 9, 13	7, 8	1989
33637	53.35	52.47	14.89	69.59	57.83	4.77	57.78	57.66	8.59					Yellow		1, 4, 7, 8, 39	7, 8	1989
33655	62.28	59.82	7.34	83.86	67.44	2.67	68.04	66.55	4.24					Yellow		1, 4, 7, 27	7, 8	1989
33685	64.85	69.24	45.92	78.18	71.35	14.45	68.69	72.21	26.00					Yellow		1, 4, 6, 7, 31	7, 8	1989
33690	66.60	67.72	53.01	80.48	70.37	16.38	68.90	69.78	30.13					Yellow	Very Light Sand	1, 4, 7, 9, 13	7, 8	1989
33695	66.85	67.39	34.69	84.61	71.98	11.10	70.97	71.24	19.59					Yellow		1, 4, 7, 9, 39	7, 8	1989
33696	68.72	68.13	23.34	88.89	74.46	7.45	74.06	74.18	13.37					Yellow		1, 4, 7, 27	7, 8	1989
33711	65.33	65.85	49.07	79.73	68.91	15.19	67.65	68.10	27.88					Yellow	Tan	1, 4, 7, 9, 39	7, 8	1989
33717	67.10	68.28	55.87	80.81	70.68	17.24	69.12	69.76	31.81					Yellow		1, 7, 9, 13, 27	7, 8	1989
33722	64.99	66.36	49.91	78.69	69.07	15.44	67.49	68.75	28.35					Yellow		1, 7, 9, 13	7, 8	1989
33727	67.96	70.29	49.13	83.30	73.08	15.51	70.61	72.26	27.69					Yellow		1, 4, 7, 9, 11, 13	7, 8	1989
33793	71.79	78.19	36.27	90.17	81.39	12.08	76.47	81.27	20.18					Yellow		1, 4, 7, 39	7, 8	1989
33798	72.16	75.14	45.72	89.07	78.55	14.49	76.09	78.36	25.85					Yellow		1, 4, 7, 39	7, 8	1989
33814	66.68	74.56	44.12	80.89	75.95	14.34	70.84	76.81	24.66					Yellow		1, 4, 7, 8	7, 8	1989
34031	5.91	6.01	6.29	6.80	6.10	1.90	6.00	6.09	3.59					Green	Aircraft Green Camo	1, 6, 9, 39	7, 8	1989
34052	5.90	6.25	6.19	6.74	6.27	1.89	6.04	6.32	3.52					Green	Marine Green #23	1, 4, 15, 39	7, 8	1989
34058	5.54	6.88	9.09	5.57	6.26	2.84	5.40	6.43	5.08					Green	Dark Blue Green	1, 8, 11, 39	7, 8	1989
34064	7.34	7.60	7.72	8.42	7.67	2.35	7.48	7.71	4.40					Green	Olive Drab 85285	1, 4, 9, 39	7, 8	1989
34079	6.66	7.25	6.30	7.68	7.27	1.96	6.94	7.39	3.58					Green	Army Forest Green, ANA 631	1, 7, 11, 15, 39	7, 8	1989
34082	7.81	8.82	6.20	9.30	8.86	1.98	8.15	8.93	3.48					Green	Dark green Camo	1, 6, 7, 18, 39	7, 8	1989
34083	7.12	7.64	6.58	8.45	7.71	2.05	7.14	7.59	3.73					Green	Air Force Forest Green	1, 13, 27, 39	7, 8	1989
34084	5.52	5.70	5.04	6.50	5.83	1.55	5.70	5.83	2.87					Green	Dark green Camo	1, 24, 27, 39	7, 8	1989
34086	7.75	8.07	7.75	8.95	8.17	2.37	7.93	8.22	4.41					Green	Army Forest Green Camo	1, 4, 23, 39	7, 8	1989
34087	No Data Available													Green		1, 24, 27, 39	7, 8	1989
34088	5.12	5.22	4.38	6.10	5.39	1.34	5.30	5.36	2.51					Green	Olive Drab CARC	1, 24, 27, 39	7, 8	1989
34089	10.32	11.56	6.31	12.54	11.83	2.00	10.93	11.96	3.59					Green	Light Green CAMO	1, 6, 27, 39	7, 8	1989
34090	8.14	13.63	9.49	8.38	11.99	3.27	8.43	12.60	5.20					Green		1, 7, 11, 39	7, 8	1989
34092	7.21	8.39	8.73	7.83	8.05	2.73	7.41	8.32	4.90					Green	Gunship Green, ANA 612	1, 7, 31, 39	7, 8	1989
34094	No Data Available													Green	Green 383 Camo	1, 6, 13, 27	7, 8	1989
34095	6.55	7.54	4.74	7.72	7.58	1.49	6.94	7.74	2.71					Green	Field Green	1, 8, 27, 39	7, 8	1989
34096	7.98	8.69	7.22	9.22	8.75	2.23	8.33	8.94	4.10					Green		1, 8, 23, 27	7, 8	1989
34097	8.78	10.05	7.14	10.19	10.03	2.26	9.32	10.35	4.03					Green	Field Green ANA 627	1, 7, 13, 27, 31, 39	7, 8	1989
34098	10.00	10.89	6.52	12.06	11.20	2.06	10.68	11.43	3.70					Green		1, 7, 27, 39	7, 8	1989
34102	8.41	9.40	6.92	9.89	9.46	2.15	8.71	9.57	3.93					Green	Dark Green	1, 6, 27, 39	7, 8	1989
34108	7.16	9.81	8.19	7.52	9.07	2.61	7.48	9.59	4.62					Green	Dark Green Int'l, Navy Torpedo	1, 7, 11, 39	7, 8	1989
34127	10.19	11.20	6.40	12.32	11.52	2.03	10.95	11.78	3.62					Green	Light Green CAMO	1, 7, 11, 23	7, 8	1989
34128	10.29	12.04	10.01	11.45	11.79	3.13	10.97	12.40	5.64					Green		1, 4, 31, 39	7, 8	1989
34129	*CIELAB												2.5	Green	Navair Flat Green #2	Unk	6	2007
34130	8.84	9.66	5.69	10.66	9.94	1.78	9.42	10.11	3.25					Green	Munsell Color 10Y3/3	1, 27, 31, 39	7, 8	1989
34138	11.17	15.55	7.97	12.54	14.79	2.67	12.18	15.75	4.47					Green		1, 4, 7, 11, 39	7, 8	1989
34148	12.28	13.99	16.89	12.87	13.33	5.15	12.45	13.84	9.60					Green		1, 4, 11, 39	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
34151	10.50	11.77	5.97	12.80	12.09	1.89	11.18	12.28	3.41					Green	Interior Green TT-P-1757, ANA 611	1, 6, 27, 39	7, 8	1989
34158	12.90	14.19	16.92	13.88	13.74	5.14	12.99	14.07	9.62					Green	Blue Drab	1, 8, 13, 39	7, 8	1989
34159	13.28	14.62	13.86	15.06	14.48	4.30	13.68	14.74	7.82					Green		1, 7, 31, 39	7, 8	1989
34160	12.86	13.49	13.98	14.81	13.53	4.25	12.76	13.37	7.98	12.48	13.51	12.89	2.00	Green	Foliage Green	Unk	2	2007
34170	*CIELAB												3	Green	Navair Flat Green #1	Unk	6	2007
34201	17.77	18.50	13.79	23.23	19.11	4.30	18.79	19.35	7.77					Green		1, 4, 9, 31, 39	7, 8	1989
34226	18.93	21.04	19.82	21.31	20.80	6.09	19.49	21.28	11.24					Green	NASA Primer	1, 7, 8, 13	7, 8	1989
34227	18.06	21.48	16.13	20.34	21.10	5.02	19.16	22.06	9.16					Green		1, 11, 16, 27, 39	7, 8	1989
34230	14.79	22.89	11.09	16.00	21.12	3.81	16.21	22.79	6.14					Green		1, 4, 7, 11	7, 8	1989
34233	21.82	24.25	29.48	23.33	23.33	8.98	21.79	23.82	16.74					Green		1, 7, 11, 39	7, 8	1989
34241	25.49	29.32	32.04	27.45	28.18	9.88	25.89	29.07	18.09					Green		1, 4, 6, 31, 39	7, 8	1989
34258	20.76	23.49	14.12	24.59	23.83	4.44	22.35	24.61	8.04					Green		1, 11, 29, 39	7, 8	1989
34259	16.56	17.88	6.12	20.73	18.90	2.01	18.32	19.47	3.48					Green		1, 13, 27, 31	7, 8	1989
34272	19.72	24.86	21.57	21.45	23.58	6.91	20.62	24.72	11.99					Green		1, 4, 6, 7, 11, 13	7, 8	1989
34277	23.70	26.65	29.85	25.71	25.76	9.15	24.01	26.35	16.96					Green	Sea Mist Green	1, 4, 6, 31, 39	7, 8	1989
34300	25.19	28.92	30.32	27.40	27.92	9.36	25.71	28.80	17.11					Green		1, 4, 11, 39	7, 8	1989
34325	24.85	30.35	31.93	26.14	28.60	9.95	25.54	29.99	17.97					Green		1, 4, 11, 39	7, 8	1989
34350	No Data Available													Green	Forest Service Green	Unk	7, 8	1994
34373	31.09	35.30	30.20	35.12	34.88	9.41	32.60	36.12	17.02					Green	Sagebrush	1, 4, 11, 39	7, 8	1989
34410	33.91	37.92	39.35	37.29	37.02	12.07	34.84	38.06	22.34					Green		1, 4, 7, 31, 39	7, 8	1989
34414	42.96	47.32	45.07	48.80	46.89	13.86	43.73	47.43	25.59					Green		1, 6, 27, 39	7, 8	1989
34424	37.46	40.40	36.41	43.07	40.54	11.30	39.02	41.31	20.54					Green	ANA 610	1, 4, 7, 13, 31	7, 8	1989
34432	37.59	40.54	39.23	42.73	40.44	12.09	38.72	41.10	22.20					Green		1, 7, 11, 13	7, 8	1989
34441	37.58	41.85	36.76	42.66	41.58	11.37	39.11	42.78	20.80					Green		1, 4, 7, 11, 13	7, 8	1989
34449	35.95	41.69	35.20	40.46	40.90	11.01	37.67	42.37	19.86					Green	Light Green Int'l	1, 4, 7, 11, 39	7, 8	1989
34491	41.50	46.72	45.49	46.20	45.80	14.02	42.55	46.97	25.74					Green		1, 4, 6, 9, 31	7, 8	1989
34504	42.29	47.00	43.80	47.69	46.48	13.52	43.76	47.62	24.84					Green		1, 4, 7, 11, 39	7, 8	1989
34516	43.65	48.40	48.73	48.77	47.57	15.03	44.73	48.52	27.65					Green		1, 6, 7, 11, 39	7, 8	1989
34518	41.85	46.14	47.82	46.52	45.36	14.70	42.86	46.35	27.18					Green		1, 4, 8, 13	7, 8	1989
34524	42.66	48.05	36.66	49.69	48.05	11.53	44.63	49.04	20.69					Green		1, 4, 7, 8, 13	7, 8	1989
34533	40.83	46.44	36.95	47.02	46.11	11.61	42.56	47.24	20.78					Green		1, 4, 7, 8, 39	7, 8	1989
34540	38.47	50.72	29.90	43.15	48.80	9.61	41.59	51.51	17.00					Green		1, 6, 21, 31	7, 8	1989
34552	50.66	55.38	32.16	61.39	56.99	10.29	54.15	58.16	18.03					Green		1, 7, 11, 27, 39	7, 8	1989
34554	55.72	59.87	53.42	63.95	60.25	16.35	57.85	61.44	30.42					Green	Public Building Standard	1, 7, 13, 31	7, 8	1989
34558	48.37	54.51	47.39	55.28	53.93	14.90	50.31	55.09	26.64					Green	Light Green Int'l	1, 11, 26, 39	7, 8	1989
34583	44.44	47.91	40.09	51.99	48.39	12.45	46.07	48.81	22.70					Green		1, 4, 7, 11, 39	7, 8	1989
34666	61.86	70.72	47.41	72.18	71.01	14.82	65.88	73.33	27.02					Green		1, 7, 11, 27	7, 8	1989
34670	58.21	62.87	64.01	65.39	62.39	19.58	59.54	63.52	36.35					Green		1, 4, 11, 26, 39	7, 8	1989
34672	58.91	63.87	57.65	67.77	63.94	17.83	60.87	64.81	32.69					Green	Pastel Blue	1, 7, 13, 31	7, 8	1989
35042	4.07	4.25	5.75	4.38	4.14	1.73	4.00	4.16	3.28					Blue	Sea Blue, ANA 607	1, 8, 27, 39	7, 8	1989
35044	4.12	4.08	6.71	4.30	3.95	1.99	3.93	3.92	3.83					Blue	Aircraft Insignia Blue, ANA 605	1, 4, 8, 11, 22, 39	7, 8	1989
35045	4.71	5.01	8.69	4.69	4.65	2.63	4.41	4.66	4.91					Blue		1, 8, 18, 27	7, 8	1989
35048	No Data Available													Blue		1, 6, 12, 27	7, 8	1989
35052	No Data Available													Blue		1, 6, 11, 12	7, 8	1989
35056	5.73	4.45	19.96	4.01	3.65	5.79	4.49	3.67	11.37					Blue		1, 6, 11, 18	7, 8	1989
35095	No Data Available													Blue		1, 6, 11, 18	7, 8	1989
35109	9.86	11.38	21.29	9.01	10.06	6.46	9.10	10.30	12.01					Blue	Light Blue Int'l	1, 8, 9, 18	7, 8	1989
35164	14.90	15.54	23.58	15.37	14.90	7.02	14.54	15.12	13.53					Blue	Navy Blue 212, ANA 608	1, 8, 22, 39	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
35177	15.74	16.94	30.50	15.08	15.57	9.13	14.90	15.92	17.37					Blue		1, 7, 8, 22	7, 8	1989
35180	14.25	14.35	48.07	10.12	11.45	14.42	11.31	11.56	26.82					Blue		1, 8, 11, 18	7, 8	1989
35183	14.09	15.41	42.78	10.87	12.60	12.99	11.67	12.72	23.81					Blue		1, 7, 8, 18	7, 8	1989
35189	17.13	19.09	27.20	17.40	17.95	8.22	16.89	18.48	15.47					Blue		1, 8, 13, 14	7, 8	1989
35190	18.74	20.93	38.48	17.38	18.85	11.53	17.53	19.36	21.93					Blue		1, 8, 13, 18	7, 8	1989
35193	16.30	19.85	30.24	15.63	17.82	9.31	15.62	18.40	17.00					Blue		1, 8, 11, 18, 39	7, 8	1989
35231	23.70	23.47	47.93	22.79	21.86	14.11	21.69	21.84	27.55					Blue	ANA 609	1, 6, 22, 39	7, 8	1989
35237	21.93	23.16	30.48	23.44	22.53	9.15	21.82	22.88	17.44					Blue	Blue Gray	1, 11, 16, 18, 39	7, 8	1989
35240	26.31	27.11	52.16	25.40	25.09	15.48	24.29	25.19	29.19					Blue		1, 8, 10, 16	7, 8	1989
35250	27.04	29.82	68.42	22.99	25.68	20.60	23.85	26.18	38.59					Blue	UN Flag Blue	1, 6, 8, 11, 14	7, 8	1989
35260	No Data Available													Blue	Forest Service Blue	Unk	7, 8	1994
35275	19.43	26.18	41.60	17.48	22.40	13.16	18.28	23.31	22.96					Blue		1, 8, 11, 18	7, 8	1989
35299	23.38	28.52	34.35	24.04	26.46	10.65	23.37	27.39	19.35					Blue		1, 7, 10, 11, 39	7, 8	1989
35352	29.07	32.03	39.97	31.58	31.01	11.62	28.95	31.42	21.45					Blue		1, 7, 8, 23	7, 8	1989
35414	33.58	37.19	43.99	36.47	35.93	13.47	33.39	36.38	24.88					Blue	Blue Green	1, 4, 6, 31, 39	7, 8	1989
35450	36.43	39.25	66.02	36.24	36.49	19.79	34.14	36.66	37.67					Blue		1, 4, 6, 22	7, 8	1989
35466	41.84	48.43	82.62	39.64	43.52	25.19	39.42	44.59	46.55					Blue		1, 6, 8, 11, 18	7, 8	1989
35488	40.19	42.44	67.09	41.25	40.22	20.19	38.39	40.42	38.15					Blue		1, 4, 8, 18	7, 8	1989
35526	46.24	48.62	64.13	49.86	47.36	19.38	45.66	47.72	36.49					Blue		1, 6, 11, 39	7, 8	1989
35550	61.39	64.40	82.70	66.91	63.01	24.99	60.45	63.06	47.08					Blue		1, 6, 31, 39	7, 8	1989
35622	57.14	61.26	66.93	63.53	60.52	20.37	57.97	61.41	38.11					Blue		1, 4, 6, 16	7, 8	1989
35630	63.42	65.46	72.93	71.64	65.56	22.11	63.86	65.69	41.59					Blue		1, 4, 31, 39	7, 8	1989
36076	7.12	7.27	10.13	7.64	7.12	3.02	6.98	7.15	5.81					Gray	Navy Gray #2, Dark Gray	1, 6, 22, 39	7, 8	1989
36081	7.54	7.84	9.48	8.30	7.76	2.84	7.56	7.82	5.43					Gray	Deep Gray, F-4 Aircraft	1, 4, 11, 39	7, 8	1989
36099	8.97	9.33	12.50	9.63	9.11	3.74	8.86	9.19	7.16					Gray	Dark Blue Gray	1, 4, 11, 14, 39	7, 8	1989
36118	10.92	11.23	15.33	11.73	10.99	4.59	10.77	11.06	8.77					Gray	Gunship Gray, ANA 603	1, 8, 18, 39	7, 8	1989
36134	No Data Available													Gray		Unk	7, 8	1994
36152	14.05	14.64	18.28	15.39	14.42	5.51	14.00	14.51	10.44					Gray		1, 11, 27, 39	7, 8	1989
36170	*CIELAB												4.70	Gray	Camouflage Gray	Unk	5	2007
36173	17.79	18.31	24.13	19.30	18.00	7.23	17.62	18.11	13.83					Gray	Ocean Gray, NAVSEA	1, 6, 9, 39	7, 8	1989
36176	16.19	16.83	23.58	17.12	16.35	7.05	16.01	16.59	13.51					Gray	Ocean Gray	1, 8, 10, 39	7, 8	1989
36231	20.36	21.06	25.76	22.43	20.85	7.75	20.37	20.99	14.74					Gray	Gray Int'l, Aircraft Gray #23, ANA 621	1, 6, 7, 39	7, 8	1989
36251	22.15	22.98	26.62	24.69	22.87	8.04	22.29	23.02	15.18					Gray		1, 7, 27, 39	7, 8	1989
36270	23.33	24.14	30.09	25.60	23.84	9.05	23.28	23.99	17.21					Gray	Haze Gray	1, 6, 7, 39	7, 8	1989
36280	25.10	26.06	30.16	27.97	25.92	9.11	25.31	26.15	17.20					Gray		1, 8, 13, 14	7, 8	1989
36293	26.23	27.01	32.50	29.08	26.85	9.79	26.28	26.99	18.58					Gray		1, 6, 23, 31	7, 8	1989
36300	29.82	30.59	39.70	32.47	30.18	11.88	29.63	30.38	22.76					Gray	Aircraft Gray Camo	1, 8, 9, 10	7, 8	1989
36306	29.90	30.07	29.58	34.90	30.83	8.96	30.52	30.68	16.90					Gray		1, 11, 13, 14	7, 8	1989
36307	28.38	29.63	31.21	32.15	29.71	9.45	28.81	29.91	17.84					Gray	Bulkhead Gray	1, 11, 13, 39	7, 8	1989
36314	27.87	29.26	33.17	31.17	29.05	10.08	28.05	29.18	18.85					Gray		1, 7, 11, 39	7, 8	1989
36320	28.76	29.85	40.12	30.82	29.17	12.00	28.54	29.52	22.98					Gray		1, 8, 22, 39	7, 8	1989
36357	33.22	34.50	34.18	38.40	34.86	10.45	33.77	34.82	19.45					Gray		1, 4, 9, 39	7, 8	1989
36373	37.12	38.36	46.05	41.20	38.08	13.89	37.08	38.19	26.30					Gray		1, 6, 13, 39	7, 8	1989
36375	34.97	36.08	46.98	38.05	35.48	14.13	34.72	35.72	26.81					Gray	Medium Gray	1, 8, 13, 14	7, 8	1989
36405	44.71	46.15	41.72	52.37	47.15	12.74	45.90	47.22	23.76					Gray		1, 4, 8, 13	7, 8	1989
36415	42.02	42.43	35.18	50.44	44.03	10.85	43.37	43.73	19.92					Gray	Beige Gray Stain	1, 4, 7, 13	7, 8	1989
36424	44.07	44.56	45.42	51.13	45.40	13.82	44.77	45.16	25.84					Gray		1, 8, 10, 13	7, 8	1989
36440	39.81	41.07	45.26	44.99	41.19	13.68	40.18	41.32	25.84					Gray	Light Gray 81352, ANA 602, 620	1, 8, 13, 18	7, 8	1989

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.



FED-STD-595C

Appendix IV - MASTER COLOR LIST

Color Number	Illuminant C			Illuminant A			Illuminant F2			Illuminant D65			60° Gloss	Color Family	Color Name	Pigment	Note	Year Added
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z						
36463	38.25	39.52	46.31	42.55	39.35	13.93	38.40	39.57	26.52					Gray		1, 8, 27, 39	7, 8	1989
36473	38.06	40.11	47.15	42.12	39.58	14.31	38.17	39.87	26.83					Gray		1, 4, 11, 22, 39	7, 8	1989
36480	No Data Available													Gray	Canada 501-109	Unk	7, 8	1994
36492	46.60	47.68	55.24	52.33	47.72	16.67	46.79	47.79	31.54					Gray		1, 4, 39	7, 8	1989
36495	56.68	58.54	69.51	62.99	58.21	20.97	56.87	58.53	39.70					Gray		1, 7, 8, 9	7, 8	1989
36521	51.11	51.59	49.41	59.92	52.91	15.07	52.20	52.68	28.09					Gray		1, 4, 9, 13	7, 8	1989
36555	50.58	52.00	42.54	60.55	53.61	13.15	52.28	53.29	24.16					Gray	Beige	1, 2, 4, 13	7, 8	1989
36559	48.13	49.95	48.73	55.83	50.56	14.90	48.95	50.42	27.75					Gray		1, 7, 13, 39	7, 8	1989
36586	53.44	55.36	51.54	62.53	56.32	15.79	54.51	56.11	29.35					Gray		1, 7, 11, 13	7, 8	1989
36595	51.76	53.59	55.51	59.33	53.98	16.90	52.44	53.95	31.65					Gray		1, 7, 8, 13	7, 8	1989
36622	56.64	58.14	62.12	64.71	58.61	18.81	57.09	58.48	35.47					Gray		1, 4, 8, 13	7, 8	1989
36628	61.44	63.46	71.82	69.14	63.41	21.74	61.75	63.55	40.96					Gray		1, 8, 13, 18	7, 8	1989
36642	64.74	64.92	60.32	76.67	66.96	18.41	65.96	66.28	34.31					Gray		1, 4, 6, 9	7, 8	1989
36650	No Data Available													Gray		Unk	7, 8	1994
37030	3.54	3.60	4.25	3.97	3.60	1.28	3.53	3.60	2.43					Misc	Black Camo	1, 14, 27, 39	7, 8	1989
37031	3.30	3.36	4.09	3.67	3.35	1.23	3.29	3.35	2.34					Misc	Interior Aircraft Black	1, 9, 12, 39	7, 8	1989
37038	3.23	3.29	3.97	3.57	3.26	1.19	3.21	3.27	2.27					Misc	Black Int'l, Navy #3 Black, ANA 604	1, 7, 18, 39	7, 8	1989
37056	5.37	5.28	5.31	6.29	5.45	1.61	5.47	5.40	3.04					Misc		1, 4, 15, 39	7, 8	1989
37100	11.62	8.42	18.49	13.16	9.14	5.18	10.23	8.09	10.94					Misc	Interior Aircraft Black	1, 10, 14, 18, 22	7, 8	1989
37142	19.08	13.00	21.90	24.40	15.19	6.18	16.19	12.10	12.94					Misc		1, 4, 10, 22, 39	7, 8	1989
37144	17.38	14.14	25.43	19.77	14.85	7.36	15.96	13.58	14.74					Misc		1, 10, 14, 39	7, 8	1989
37150	60.00	61.02	60.51	69.84	62.19	18.43	61.02	61.88	34.47					Misc		1, 4, 22, 39	7, 8	1989
37200	29.05	29.76	34.69	32.55	29.75	10.46	29.16	29.82	19.82					Misc		1, 6, 14, 39	7, 8	1989
37722	70.77	72.56	73.24	81.79	73.59	22.31	71.88	73.45	41.71					Misc		1, 4, 13, 39	7, 8	1989
37769	61.66	62.87	58.40	72.59	64.38	17.87	62.82	63.95	33.15					Misc		1, 4, 13, 39	7, 8	1989
37778	73.56	75.72	70.20	86.30	77.25	21.51	75.13	76.90	39.96					Misc		1, 4, 7, 39	7, 8	1989
37855	75.89	78.97	65.91	89.76	80.96	20.16	78.15	81.02	37.67					Misc	Eggshell, Ivory	1, 4, 7, 39	7, 8	1989
37875	81.01	83.54	92.75	91.81	83.73	28.16	81.34	83.62	52.88					Misc	White, Int'l, Aircraft White, Insignia White, ANA 601	1, 4, 5, 6	7, 8	1989
37886	81.69	84.20	85.02	94.39	85.19	25.92	82.85	84.85	48.51					Misc		1, 4, 7, 39	7, 8	1989
37925	88.64	90.57	103.90	99.99	90.78	31.42	88.95	90.69	59.41					Misc		1	7, 8	1989
38901				12.55	21.79	3.60	13.17	23.02	4.78	11.81	25.62	8.41		Fluorescent		7, 41	7, 8	1989
38903				145.73	77.89	1.44	98.22	59.78	2.49	94.35	53.38	4.08		Fluorescent		42, 44	7, 8	1989
38905				72.77	35.57	1.19	40.70	22.79	2.22	44.92	23.35	3.58		Fluorescent		22, 42, 44	7, 8	1989
38907				94.11	72.53	2.54	75.80	70.33	3.79	67.50	62.60	6.25		Fluorescent		27, 42	7, 8	1989
14087	2.02	2.11	1.25	2.48	2.21	0.39	2.13	2.20	0.72					Green		1, 24, 27, 39	7, 8	Canc
24087	2.98	3.09	2.09	3.64	3.21	0.66	3.14	3.21	1.18					Green		1, 24, 27, 39	7, 8	Canc

Unless otherwise noted: Illuminant C, D65 (daylight), Illuminant A (incandescent tungsten lamplight), Illuminant F (standard cool white fluorescent lamp) IAW ASTM E308; 60 degree specular gloss IAW ASTM D523.

**FED-STD-595C**

**Appendix V - Notes**

<b>Detailed Notes</b>	
<b>1</b>	Gloss: BYK Gardner micro-TRI-gloss model 4528 gloss meter in accordance with ASTM D523; Color: Gretag-Macbeth Color-Eye model 7000A spectrophotometer in accordance with ASTM E308 and ASTM E1348, using hemispherical 8° geometry with spectral component included using integrated sphere instead of 0/45 geometry. Air Force Coating Technology Integration Office, AFRL/MLSSO
<b>2</b>	ASTM E308 standard 2° observer, <b>Army Research Lab</b>
<b>3</b>	D65, A and F2 lighting measured in accordance with ASTM E308 standard 2° observer. 60° gloss calculations in accordance with ASTM D523. Natick Soldier Center, Natick MA
<b>4</b>	<b>Hawker Beechcraft Aircraft Company</b>
<b>5</b>	Only Hunter and CIELAB values available. <b>Deflt, 99-GY-070 Lockheed Martin F-35</b>
<b>6</b>	Only Hunter and CIELAB values available. <b>Deflt Color Panel; Naval Air Systems Command, Lakehurst NJ</b>
<b>7</b>	Illuminant A represents incandescent lamplight with an approximate color temperature of 2854 degrees Kelvin; Illuminant C represents light from an overcast sky with a correlated color temperature of approximately 6770 degrees Kelvin; Illuminant D65 represents daylight with a correlated color temperature of approximately 6500 degrees Kelvin; Illuminant F2 represents light emanating from a cool white fluorescent source.
<b>8</b>	These tristimulus values were determined in accordance with ASTM E308 and calculated for the CIE 1931 2-degree observer using 0 degree to 45 degree illumination. The equipment used for the measurements was the Hunter Colorimeter Labscan LS 5100. <b>Color of part of original 1989, 1994 standard.</b>