

FED STD 595 Paint Spec

As a supplier of custom CNC Machining service in China, Top Level International provides metal/plastic machined parts according to clients' drawing (make-to-print). In drawing, colored surface finish is usually required like **Olive Drab(FED-34088) I.A.W FED.STD.595**. Especially for aluminum machining parts. What does this color look like? How should we get the right surface color?

For better understanding, here we would like to share the standard of **FED STD 595 Paint Spec** for your information. Any question on this standard or inquiry of CNC machining, feel free to let us know by email to info@toplevelcnc.com.

The colors in the Federal Standard set have no official names, just five-digit numbers. Any names given below are generic.

The first figure can be 1,2 or 3 and indicates the level of sheen:

- 1 = gloss
- 2 = semi gloss
- 3 = matt

The second figure of the code indicates a general color classification group;



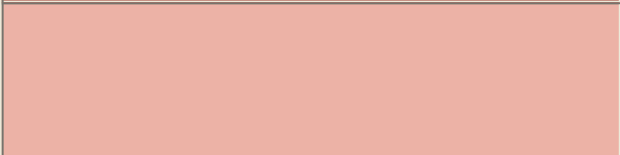



0 = Brown	5 = Blue
1 = Red	6 = Grey
2 = Orange	7 = Other (white, black, violet, metallic)
3 = Yellow	8 = Fluorescent
4 = Green	

The remaining figures (third to fifth) combined into a number indicate the intensity. Lower value indicates a darker color, higher value - a lighter color, with no other significance. The numbers have been assigned with gaps to allow addition of new colors. Fed-Std-595 is a color collection, not a complete color system, and this has the following implications:

- The existence of a color chip 1xxxx in the FS Fan Deck doesn't imply that there is a color chip for 3xxxx. However, references to such "virtual" chips built on the principle "same color, but different sheen" is a widespread practice.
- The FS is not extensible, i.e. it does not allow to derive new colors from the existing ones. Thus, if you compare i.e. RLM colors to FS codes, you can only refer to the nearest existing FS color, which most often isn't a perfect match. In practice, the FS set is extensive enough to find a good-enough match for almost any color.

The following chart provides rough approximations of a few FS-595B colors. Note, the colors on computer screens can vary substantially based on your monitor and your computer. For more accurate representations of all 611 Fed-Std-595 colors, please use a Fan Deck, and for a

definitive reference, use the 3x5 color chips. The RGB Hex Code is a reference to what is shown on your monitor and is only a rough approximation of the true color.


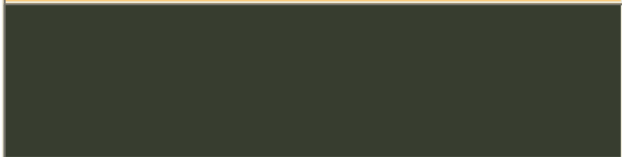



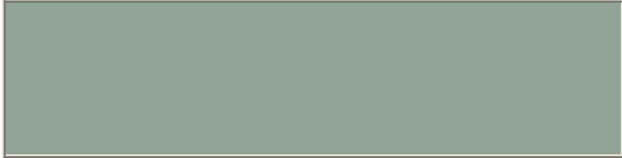
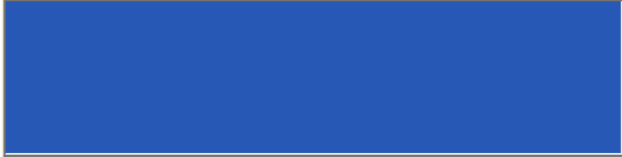
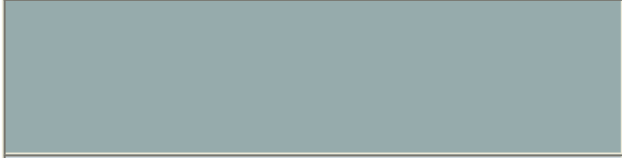
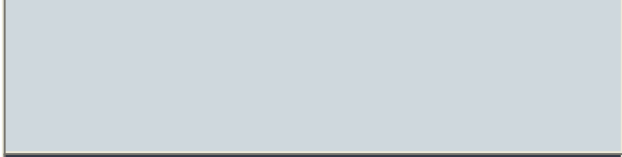
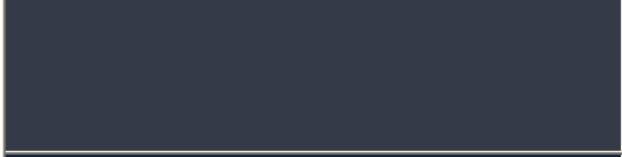

Color	Description	RGB Hex Code	Name <i>Nickname</i>
	FS 10140	532F15	Brown Special
	FS 11136	9B2F25	Insignia Red
	FS 11630	ECB2A6	Pink
	FS 12197	BA160C	International Orange
	FS 13538	F5AB30	Orange Yellow
	FS 13591	F7D100	Yellow
	FS 13655	FDD31D	Blue Angels Yellow
	FS 13670	DBE568	Lime Yellow
	FS 14052	373D2F	Green

	FS 14062	3D6E3F	Dark Green
	FS 14087	3C341F	Olive Drab
	FS 14115	006845	Green
	FS 14258	515E32	Green
	FS 15042	070D09	Sea Blue
	FS 15044	2A3141	Insignia Blue
	FS 15050	070D1B	"Blue Angels" Blue
	FS 15056	001068	Blue
	FS 15102	023457	Dark Blue
	FS 15183	0E5A8B	Bright Blue
	FS 15200	7CBCE0	Sky Blue

	FS 15450	72A0C1	Air Superiority Blue
	FS 16076	353736	Engine Gray
	FS 16081	3B3F42	Engine Gray
	FS 16440	8A8685	Light Gull Gray
	FS 16473	9EA2A3	Aircraft Gray
	FS 16515	B8B7A3	Canadian Voodoo Gray
	FS 17038	03120F	Black
	FS 17043		Gold
	FS 17100	03120F	Purple
	FS 17178		Aluminum / Silver
	FS 17875	EDF2F8	Insignia White

	FS 17925	F8F9F3	Insignia White
	FS 18913	FC4827	Fluorescent Red Orange
	FS 20061	531F23	Maroon
	FS 20062	4A3733	Brown
	FS 20100	93400A	Brown Yellow
	FS 20109	83321F	Red Brown
	FS 20140	694024	Brown Special
	FS 20252	BC7756	Tan
	FS 20260	AF8D50	Tan
	FS 20266	A28744	Yellow Sand
	FS 20400	B9845C	Tan

	FS 20450	AB967B	Night Tan
	FS 21105	B51F11	Red
	FS 21310	E43301	Red
	FS 21400	E94400	Red
	FS 22190	E43301	Red
	FS 22516	E09F69	Tan
	FS 23275	CE981A	Earth Yellow
	FS 23578	DBCCA5	Cream
	FS 23594	DEC26E	Beige
	FS 23655	FCCE16	Yellow
	FS 23722	EEDDAF	Sand

	FS 23697	FACC7F	Yellow Sand
	FS 24052	373D2F	Green
	FS 24079	41402C	Forest Green
	FS 24190	4EA04E	Green
	FS 24272	6D9477	Green
	FS 24410	91A395	Green
	FS 25095	2758B5	Blue
	FS 25352	96ABAC	Blue
	FS 25550	CFD8DD	Light Blue
	FS 26008	343A48	Dark Gray
	FS 26044	172339	Gray

	FS 26081	3B3F42	Seaplane Gray
	FS 26118	3F4952	Medium Gunship Gray
	FS 26152	6A737A	Gray
	FS 26270	797F7F	Medium Gray
	FS 26320	808C8C	Dark Compass Ghost Gray
	FS 26375	9598A1	Light Campers Ghost Gray
	FS 26440	878684	Light Gull Gray
	FS 27038	051111	Black
	FS 27780	FBFEEB	White
	FS 27875	EDF2F8	Insignia White
	FS 28913	FE4728	Fluorescent Red Orange

	FS 28915	FB2B11	Fluorescent Red
	FS 30045	543B34	Brown
	FS 30051	443724	Leather Brown
	FS 30075	4D140B	Hull Red
	FS 30091	612F24	Red Brown
	FS 30097	564032	Brown
	FS 30099	473622	Brown
	FS 30108	3C1E16	Red Brown
	FS 30111	4C2A21	Brown
	FS 30117	704437	Earth Red
	FS 30118	5B462B	Field Drab

	FS 30140	532F17	Brown Special
	FS 30160	6B433B	Brown
	FS 30215	70472B	Brown
	FS 30219	715540	Tan
	FS 30227	8D7A69	Tan
	FS 30257	B48E5D	Tan
	FS 30266	A28744	Yellow Sand
	FS 30277	948B6C	Sand Brown
	FS 30279	A58E7E	Sand
	FS 30372	B2A68C	Sand
	FS 30400	B58159	Yellow Sand

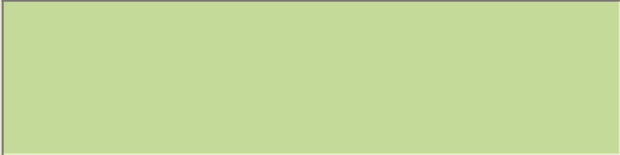
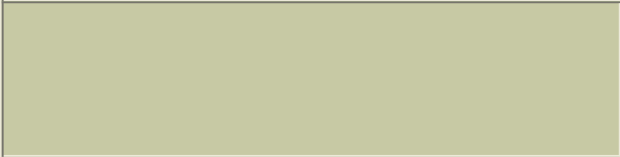

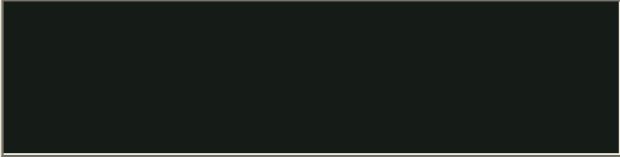
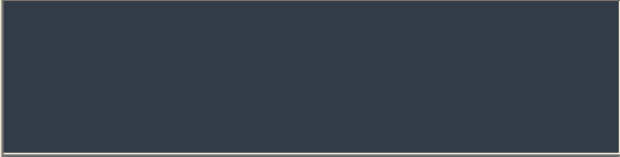

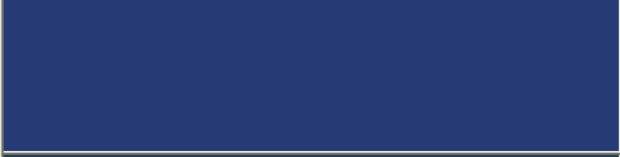

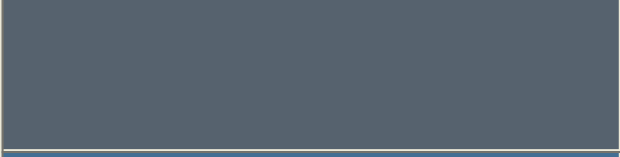


	FS 31090	694223	Brown
	FS 31136	9A2E24	Insignia Red
	FS 31302	D32200	Red
	FS 31350	C41D0A	Red
	FS 31400	E94400	Red
	FS 32648	E2C293	Sand
	FS 32473	EF6C00	Orange
	FS 33105	5D4B33	Brown
	FS 33245	8F693A	Tan
	FS 33303	957F56	Sand
	FS 33434	BD8846	Ochre


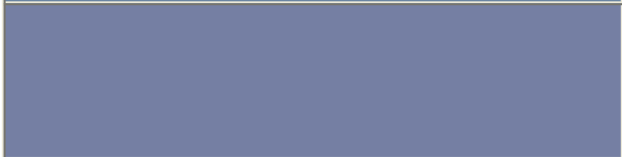
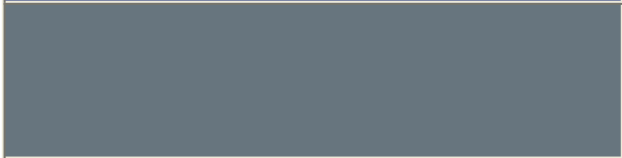


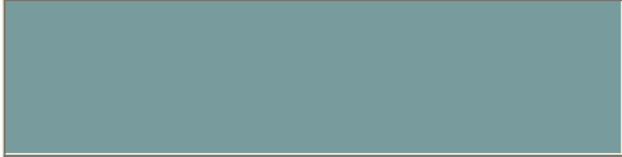

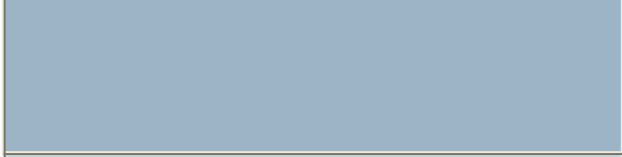
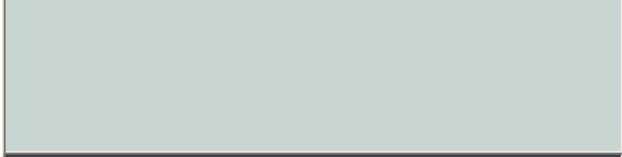

	FS 33440	9F9059	Tan
	FS 33446	A38C6C	Dessert Tan
	FS 33448	A59272	Dark Yellow
	FS 33531	C7AB84	Middlestone
	FS 33538	FEC110	Orange Yellow
	FS 33613	F1C7A1	Radome Tan
	FS 33617	C6B490	Sand
	FS 33690	E3CFB7	Sand
	FS 33695	F5CA86	Yellow Sand
	FS 33711	DFCBA8	Sand
	FS 33717	F0D6B1	Sand

	FS 34031	2A2C1F	Dark Green
	FS 34052	373D31	USMC Green
	FS 34058	46696F	Sea Blue
	FS 34064	373828	Dark Green
	FS 34077	344034	Green
	FS 34079	423F2C	Forest Green
	FS 34082	44503A	Green
	FS 34083	3A4630	Green
	FS 34084	282A1D	Green
	FS 34086	404034	I. R. Dark Green
	FS 34087	3C3421	Olive Drab

	FS 34088	3C341F	Olive Drab
	FS 34092	364A41	Dark Green
	FS 34094	3E3D29	Green
	FS 34095	3B482C	Field Green
	FS 34096	454D42	Dark Green
	FS 34097	4A4C34	Field Green
	FS 34098	4F5338	Green
	FS 34102	454932	Light Green
	FS 34108	1B4B21	Medium Green
	FS 34127	455238	Green
	FS 34128	4B654A	Deep Green

	FS 34138	19481E	Green
	FS 34151	536437	Interior Green
	FS 34159	585E50	Green
	FS 34201	685D47	Tan Green
	FS 34227	4D6B53	Medium Gray Green
	FS 34230	2F6031	Green
	FS 34258	6F8054	Green
	FS 34259	51680E	Yellow Green
	FS 34414	A8B693	Green
	FS 34417	9FAD8C	Light Gray Green
	FS 34424	A0B29A	Light Gray Green

	FS 34552	C4DA99	Light Green
	FS 34554	C7C9A4	Sky
	FS 34666	D8EFAB	Green
	FS 35042	151B17	Sea Blue
	FS 35044	323C48	Insignia Blue
	FS 35045	355061	Dark Blue
	FS 35052	263A75	Blue
	FS 35109	273D55	Dark Blue
	FS 35164	56626E	Intermediate Blue
	FS 35177	436F94	Medium Blue
	FS 35189	687681	Blue Gray

	FS 35190	6A85A2	Dark Blue
	FS 35231	757FA3	Azure Blue
	FS 35237	67757E	Gray Blue
	FS 35240	7882A5	Blue
	FS 35250	3592BD	Blue
	FS 35352	8FABAE	Blue
	FS 35414	789B9D	Blue
	FS 35450	7499AC	Air Superiority Blue
	FS 35526	9DB4C6	Light Sky Blue
	FS 35622	C9D5D1	Light Blue
	FS 36076	3B3E51	Gray

	FS 36081	3B3F42	Dark Gunship Gray
	FS 36099	474D49	Dark Gray
	FS 36118	414A53	Medium Gunship Gray
	FS 36152	545E56	Gray
	FS 36165	7A755F	Gray
	FS 36173	606666	Neutral Gray
	FS 36176	40474D	Dark Gull Gray
	FS 36231	6F7571	Dark Gull Gray
	FS 36251	6A6C6B	Gray
	FS 36270	7A7F82	Medium Gray
	FS 36280	7F8581	Dark Gray

	FS 36300	939498	Aircraft Exterior Gray
	FS 36307	95928D	Gray
	FS 36314	8B8C84	Flint Gray
	FS 36320	818B8D	Dark Compass Ghost Gray
	FS 36329	819490	Light Gray
	FS 36373	8A8E8D	Light Gray
	FS 36375	9598A1	Light Compass Ghost Gray
	FS 36424	BAB2A5	Medium Gray
	FS 36463	A7B6B9	Gray
	FS 36440	ACACA4	Light Gull Gray
	FS 36473	98A6A7	Sky Gray

	FS 36492	B7B4AB	Gray
	FS 36495	C6C5CA	Light Gray
	FS 36521	B9B19C	Tan
	FS 36555	A3947D	Tan
	FS 36559	BFBBB2	Gray
	FS 36622	C8C1B1	Gray
	FS 36628		Flat Aluminum
	FS 37031	24272E	Black Gray
	FS 37038	051111	Black
	FS 37100	794B7A	Purple
	FS 37855	FDfBD2	White

	FS 37875	EDF2F8	Insignia White
	FS 37925	F8F9F3	Insignia White