

HEXIS COLORCUT

FOR THE ATTENTION OF USERS

In the tables below, the colors of the HEXIS COLORCUT range are given in different color spaces.

Definitions

CIE L*a*b* Space

The CIE L*a*b* space is a colorimetric system based on the visual perception of colors, optimized to measure color shift.

L*a*b* values are useful to create a spot colors library in RIP software when you wish to reproduce them. This method should be preferred in order to make the most of your printer's range printable colors.

The Coated FOGRA39 standard

CMYK values correspond to the quantities of primary inks needed to obtain, according to the Coated FOGRA39 standard, the closest color on an offset press. Since this colorimetric space has a limited range of colors, many COLORCUT references cannot be reproduced within this system.

Colorimetric spaces sRGB and ADOBE RGB (1998)

RGB values are the amount of red, green and blue light required to reproduce the colors on a calibrated screen and normalized to the sRGB or ADOBE RGB (1998) standard. The sRGB data is dedicated to the display on the internet..

ADOBE RGB (1998) comes from the world of professional photography and the need for a dedicated RGB space to the printing business..

The values in this document are indicative and not contractual

Reproducing a color on a printing system requires that it be calibrated and accurately characterized through an ICC profile suitable for that system.

Hexis offers, a custom profile creation service or free, ICC profiles download that match your machine-media-RIP configuration, and thus ensures a quality colorimetric rendering. Each configuration requires a different ICC profile. These tools are available on the Hexis website at : <http://www.hexis-graphics.com/en/iccs/index>.

It is the user's responsibility to visually compare the printed color with the reference of the color chart in order to assess the differences in color and their acceptability. Not all colors of the HEXIS COLORCUT color chart can be printed on a large-format printer. Only those that belong to the printer gamut can be printed.

Hexis takes no responsibility for the direct or indirect consequences of using these tables.

Color Characterization Table for COLORCUT

COLORCUT	Color space												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Reference	L	a	b	C	M	J	K	R	G	B	R	G	B
CC01	96,7	-0,78	-0,06	1	0	3	0	255	244	212	255	243	213
CC02	18,57	-0,13	-0,57	73	63	59	76	48	45	38	51	49	43
CC03	62,71	-19,66	-39,6	72	13	0	0	84	162	194	113	161	191
CC04	32,55	26,04	-70,15	93	74	0	0	70	63	168	70	65	164
CC05	36,26	10,41	-52,18	90	69	0	0	71	81	149	75	82	146
CC06	21,57	5,37	-17,4	92	85	39	41	55	49	67	57	52	68
CC07	37,25	-35,83	7,06	96	31	80	23	0	101	62	56	101	67
CC08	45,34	58,41	37,36	12	94	88	3	199	45	39	171	49	44
CC09	87,95	9,64	98,52	0	14	100	0	255	210	0	255	209	0
CC10	82,56	25,81	104,49	0	31	100	0	255	183	0	255	182	0
CC12	54,35	-1,64	-4,65	51	37	34	15	133	130	119	131	129	118
CC13	59,4	-34,56	33,84	69	10	87	0	98	158	62	118	156	71
CC14	34,57	17,2	-22,65	71	78	25	10	102	71	102	95	72	101
CC15	67,91	58,92	65,92	0	67	81	0	255	110	24	243	110	38
CC18	34,77	-0,91	-0,36	62	50	51	45	86	81	70	85	82	72
CC19	91,58	-1,84	97,25	0	1	98	0	255	228	0	255	227	0
CC28	47,14	-32,52	-15,78	90	24	42	8	8	126	119	72	125	118
CC29	66,58	-38,56	-13,99	72	0	31	0	66	180	161	114	179	160
CC31	61,5	-35,61	-4,17	73	4	45	0	74	165	133	110	163	133
CC34	33	32,41	9,9	31	85	58	38	128	52	54	112	55	57
CC54	71,73	17,88	-21,04	23	38	0	0	208	163	187	195	162	185
CC60	63,92	21,97	13,45	16	48	41	5	204	138	113	187	137	113
CC61	70,46	44,35	5,42	0	58	14	0	254	136	142	228	135	141
CC62	47,97	51,66	5,25	16	85	33	5	195	67	93	169	69	92
CC67	80,47	-36,52	74,77	44	0	100	0	165	216	0	180	215	34

Color Characterization Table for COLORCUT

COLORCUT	Color space												
	Lab D50 2°			CoatedFOGRA39				sRGB			Adobe RGB (1998)		
Reference	L	a	b	C	M	J	K	R	G	B	R	G	B
CC68	85,01	-25,45	5,14	37	0	28	0	176	225	173	190	224	174
CC73	50,04	51,14	22,95	12	82	60	2	204	72	70	177	74	72
CC76	31,48	18,77	13,52	36	72	70	50	108	61	44	98	63	49
CC81	75,47	2,89	18,78	18	22	42	3	209	182	128	201	180	130
CC84	74,23	34,17	19,97	0	48	34	0	255	155	126	232	154	126
CC92	30,36	-4,02	17,18	63	50	90	54	76	72	35	76	74	42
CC20	63,96	2,33	40,34	27	30	76	11	181	151	63	171	150	72
CC30	65,09	-1,08	-2,19	39	28	29	7	165	157	139	161	156	139
CC40	103,05	-34,87	96,16	24	0	100	0	232	255	0	244	255	0
CC41	89,63	-67,2	65,68	55	0	100	0	109	255	51	167	255	78
CC42	80,81	73,36	81,28	0	65	74	0	255	127	8	255	126	33
CC43	78,36	85,86	-1,06	0	69	0	0	255	100	175	255	100	171

Exchange Table between COLORCUT and PANTONE color charts

The following colorimetric correlation, between the references COLORCUT and PANTONE, as well as the color shift expressed in ΔE 2000, are given only as an informative guide to facilitate the search and have no contractual value (colors may be altered by the reproduction quality of documents or screens).

It's the user's responsibility to visually compare the physical color charts in order to assess the differences in color and their acceptability.

Hexis takes no responsibility for the direct or indirect consequences when using these tables.

Delta E is measured on a scale from 0 to 100, where 0 is less color difference, and 100 indicates complete distortion.

How to interpret the data of a DeltaE2000 ?

(Interpretation remains individual)

0 to 1	A normally invisible difference
Above 1 up to 2	Very small difference, only evident for a trained eye
Above 2 up to 3.5	Average difference, also evident for all
Above 3.5 up to 6	An obvious difference
Greater than 6	A very obvious difference

COLORCUT	PANTONE	ΔE 2000
CC01	Pantone 441 C	11,8
CC02	Pantone 426 C	3,1
CC03	Pantone 2191 C	1,4
CC04	Pantone 2126 C	3,1
CC05	Pantone 2131 C	3,3
CC06	Pantone 5255 C	7,8
CC07	Pantone 342 C	1,2
CC08	Pantone 7620 C	1,9
CC09	Pantone 116 C	2,3
CC10	Pantone 136 C	6,5
CC12	Pantone 7544 C	4,7
CC13	Pantone 7738 C	3,1
CC14	Pantone 7447 C	0,5

Exchange Table between COLORCUT and PANTONE color charts

COLORCUT	PANTONE	ΔE 2000
CC15	Pantone 164 C	2,8
CC18	Pantone 445 C	4,8
CC19	Pantone 107 C	2,7
CC28	Pantone 2237 C	3,2
CC29	Pantone 319 C	6
CC31	Pantone 7473 C	4,7
CC34	Pantone 195 C	2,1
CC54	Pantone 2567 C	2,0
CC60	Pantone 7613 C	2,3
CC61	Pantone 183 C	4
CC62	Pantone 7433	5,4
CC67	Pantone 2290 C	1,3
CC68	Pantone 337	3,7
CC73	Pantone 7418 C	3,3
CC76	Pantone 498 C	2,5
CC81	Pantone 7502 C	4,5
CC84	Pantone 169 C	5,3
CC92	Pantone 7764 C	3,8
CC20	Pantone 4505 C	6,6
CC30	Pantone 429 C	3,4
CC40	Pantone 2297 C	12
CC41	Pantone 802 C	9,7
CC42	Pantone 164 C	10,3
CC43	Pantone 1905 C	12,2