



Off-Press Proof Application Data Sheet

EFI Colorproof XF

EFI Certified 4245 Press Proof Semimatt Paper

SWOP Coated #3

IDEAlliance has approved the use of off-press proofs as input material to publications. IDEAlliance specifications recommend that: "The appearance of a hard copy or monitor proof used in this application must closely simulate Certified Proof." See other explanations and recommendations outlined on www.swop.org or www.gracol.org.

The following information is intended to assist producers and consumers in the use of proofing materials in a SWOP proofing application

I. Manufacturer

EFI,
3030 Velocity Way,
Foster City, CA 94404

II. Product

EFI Colorproof XF
Epson Stylus Pro x800 series with Ultrachrome K3 ink
EFI Certified 4245 Press Proof Semimatt Paper

III. Introduction

The EFI Colorproof XF software in combination with the Epson Stylus Pro x800series with Ultrachrome K3 ink and EFI Certified 4245 Press Proof Semimatt Paper is a non-halftone direct digital color proofing system. This combination provides a continuous tone certified contract proof for use in the Offset and Gravure Print environments that meets the color requirements for SWOP proofing. EFI Certified 4245 Press Proof Semimatt Paper offers a short drying time and a feel and appearance that resemble offset production paper. Reduced optical brighteners guarantees a high stability for color management. (Paperwhite LAB- Value: 94.8, 0.3,-1.5), consistency from roll to roll Delta E < 1, 5.

IV. Control Guide

IDEAlliance specifies a control guide such as an ADS Proofing Certification Strip be supplied on every off-press proof. As a minimum, this guide should contain solids for the primary process colors (YMCK), two-color overprints (RGB) and a three-color overprint (YMC), as well as a 25%, 50%, and 75% tint in stated line screen resolution of each of the primary process colors and 3-color gray patches. All control guides should be checked for accuracy of the original values. Use and interpretation of a control guide is the responsibility of the creator.





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As all of the required patches are also content of the Fogra EFI Colorverifier and also iso compliant, the measurement contains all important information needed from ADS Proofing Certification Strip.

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V. System Components

Software RIP:	EFI Colorproof XF 3.1 or later EFI Colorproof Calibrated Workflow EFI Colorproof Verifier	
Printer:	Epson Stylus Pro x800 Ultrachrome K3 ink with Photo Black	
Media:	EFI Certified 4245 Press Proof Semimatt Paper 1440x720 dpi, unidirectional	
	This profile is connected to the calibration epl file,	which ensures that the printer works linear.
Measurement device:	X-Rite DTP70 Spectrophotometer, non UV cutoff filter	

For achieving the SWOP/GRACoL results it's recommended to create a SWOP/GRACoL Workflow in EFI Colorproof XF system manager, where all the presets can be done, e.g. choose the SWOP2006_Coated3v2.icc reference profile.

VI. Finishing Procedures

For constant results it's recommended to wait for 15 min before measuring with EFI Colorproof XF.

VII. Finished Proof Characteristics

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from the ADS Proofing Certification Strip having been properly made to all the listed system components and finishing procedures.

Note: Three-color grays are comprised of Cyan, Magenta, Yellow: 75, 66, 66; 50, 40, 40; and 25, 19, 19 values.

All measurements to proof and verify the proof have to be done by X-rite DTP70 (D50, non UV cutoff filter, white backing).

VIII. Sample Proofs

EFI has supplied three (3) sets of hard copy proofs for retention.

IX. Additional Proof Data

No additional Data is supplied



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ADS Proofing Certification Strip SWOP 2006 Coated #3

Patch ID	CIELab Data			Maximum Delta E(ab)
	L*	a*	b*	
Paper	92.5	0	0	3
Yellow Solid	87.97	-5.03	88.1	5
Yellow 75%	89.01	-5.15	67.4	-
Yellow 50%	90.32	-4.34	43.74	-
Yellow 25%	91.46	-2.5	20.87	-
Magenta Solid	47.84	72.08	-3.11	5
Magenta 75%	56.81	55.45	-4.35	-
Magenta 50%	68.16	35.77	-4.37	-
Magenta 25%	80.49	17.04	-2.7	-
Cyan Solid	56.99	-37.23	-44.95	5
Cyan 75%	64.4	-28.99	-35.65	-
Cyan 50%	73.08	-19.51	-24.73	-
Cyan 25%	82.45	-9.86	-12.88	-
Black Solid	18.06	0.01	-0.11	5
Black 75%	39.28	-0.34	-1.8	-
Black 50%	58.21	-0.51	-2.27	-
Black 25%	75.49	-0.39	-1.61	-
Red Solid	46.86	66.21	45.03	6
Green Solid	52.12	-64.75	24.83	6
Blue Solid	26.85	18.1	-44.32	6
3 Color 100%	24.79	0.22	-0.52	6
3 Color 75%	39.81	-0.46	0.13	-
3 Color 50%	56.29	-0.48	-0.41	3
3 Color 25%	73.5	0.03	-0.29	-

Note: 3-color 25% and 75% CIELab values are calculations from the IT8/7.4 characterization data as these patches are not a subset of that data.



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FOGRA Wedge Characterization Data CIELab Values for SWOP

2006 Coated #3

Patch ID	CIELab Data		
	L*	a*	b*
Top 1-1	56.99	-37.23	-44.95
Top 1-2	66.07	-27.13	-33.53
Top 1-3	76.68	-15.58	-20.13
Top 1-4	47.84	72.08	-3.11
Top 1-5	58.95	51.61	-4.46
Top 1-6	73.11	27.81	-3.93
Top 1-7	87.97	-5.03	88.1
Top 1-8	89.28	-5.09	62.78
Top 1-9	90.78	-3.69	34.25
Top 1-10	52.11	36.5	27.3
Top 1-11	39.97	20.57	14.49
Top 1-12	31.11	36.33	20.69
Top 1-13	32.17	39.98	-2.94
Top 1-14	49.02	0.9	37.5
Top 1-15	35.01	-34.17	11.23
Top 1-16	37.09	-24.36	-18.62
Top 1-17	22.79	7.7	-22.88
Top 1-18	85.69	-0.18	-0.7
Top 1-19	78.87	-0.35	-1.4
Top 1-20	65.26	-0.51	-2.24
Top 1-21	51.02	-0.51	-2.31
Top 1-22	35.26	-0.28	-1.63
Top 1-23	18.06	0.01	-0.11
Bottom 2-1	26.85	18.1	-44.32
Bottom 2-2	40.85	16.19	-34.08
Bottom 2-3	59.98	9.94	-22
Bottom 2-4	46.86	66.21	45.03
Bottom 2-5	57.68	47.17	37.42
Bottom 2-6	71.81	24.79	23.57
Bottom 2-7	52.12	-64.75	24.83
Bottom 2-8	63.15	-41.26	21.06
Bottom 2-9	74.98	-21.34	12
Bottom 2-10	68.56	20.02	18.67
Bottom 2-11	69.74	23.44	67.23
Bottom 2-12	47.87	69.02	16.49
Bottom 2-13	38.04	51.19	-21.63
Bottom 2-14	72.78	-24.61	60.84
Bottom 2-15	54.86	-51.51	-16.56
Bottom 2-16	44.63	-16.62	-44.13
Bottom 2-17	92.5	0	0
Bottom 2-18	85.38	-0.74	-1.07
Bottom 2-19	78.59	-1.59	-2.16
Bottom 2-20	64.76	-2.56	-2.79
Bottom 2-21	51.46	-3.19	-2.38
Bottom 2-22	39.01	-4.45	-2.42
Bottom 2-23	28.66	-6.84	-3.79