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KODAK Professional Accessories

Kodak Professional Accessories catalog:

In January of 2000, **The Tiffen Company LLC** became the worldwide manufacturer and distributor of selected Kodak Professional Accessories. These accessories are divided into the following categories: Kodak Filters, Kodak Quality Control and Calibration Devices, and Kodak Darkroom and Finishing Supplies.



KODAK Filter

KODAK filters are available in more than 100 varieties. Gelatin filters are for use with image-forming light beams. Acetate filters are suitable for use only in non-image-forming beams. KODAK WRATTEN Gelatin Filters and KODAK ACETATE Filters are available in the sizes listed in this catalog. Minimum order quantities may apply. Orders for large quantities of filters or filters not normally stocked will require up to an 8-week lead-time. KODAK WRATTEN Gelatin Filters are separated into the 7 types listed below. A complete list of the standard KODAK WRATTEN Filters appears on page 2. Additional filters are available upon request and minimum order.

Basic Colors	Infrared
Special Dye Colors	Neutral Density
Color Conversion	Color Compensating
Light Balancing	

KODAK Quality Control and Calibration Devices

KODAK Quality Control and Calibration Devices are used to standardize and control light exposure for many applications and industries including photography, graphic arts, and optical systems. They are available in a wide variety of formats for both light transmission and light reflection.

KODAK Darkroom and Finishing Supplies

KODAK Darkroom and Finishing supplies are high quality material for a variety of uses. They provide the user with tools to help create, finish, display, and store high quality images.

KODAK WRATTEN Gelatin Filters

This chart lists the standard numerical designations of available KODAK WRATTEN Gelatin Filters.

Filter Color Description/Use

Yellows

2A	Pale yellow. Absorbs ultraviolet radiation.
2B	Pale yellow. Absorbs ultraviolet radiation, slightly less than No. 2A.
2E	Pale yellow. Absorbs more ultraviolet radiation than No. 2A.
3	Light yellow. Absorbs excessive sky blue.
8	Yellow. Transmits less blue than No. 3.
9	Deep yellow. More dramatic effect than No. 8.
11	Yellowish-green. Corrects panchromatic film rendition to match tungsten impression of scene.
12	Deep yellow. Minus blue filter (see No. 32 for minus-green and No. 44A for minus-red).
15	Deep yellow. Darkens sky in landscape photography.

Oranges, Reds and Magentas

16	Yellow-orange. Greater over-correction of sky than No. 15.
21	Orange. Contrast filter for blue and blue-green absorption.
22	Deep orange. Contrast filter, greater effect than No. 21.
24	Red.
25	Red tricolor. Color separation work, tricolor printing, and infrared photography.
26	Red.
29	Red. Color separation with Nos. 47 and 61 and tricolor printing work.
32	Magenta. Minus-green (No. 12 is minus-blue, No. 44A is minus-red).

Violets, Blues and Greens

34A	Violet. For minus-green and plus-blue separation.
38A	Blue. Absorbs red, some UV and green light.
44	Light blue-green. Minus-red filter with much UV absorption.
44A	Light blue-green. Minus-red (No. 12 is minus-blue, and No. 32 is minus-green)
47	Blue tricolor. Color separation work with Nos. 29 and 61.
47A	Light blue. Exciting fluorescein dyes in medical applications.
47B	Deep blue tricolor. Color separation and tricolor work.
58	Green tricolor. Color separation and tricolor printing.
61	Deep green tricolor. Tricolor work with Nos. 29 and 47.

Color Conversion or Conversion Filters

Designed to provide significant changes in color temperature of various light sources.
80A, 80B, 80C, 80D—Blue series of conversion filters for use with color films.
5, 85N3, 85N6, 85N9, 85B, 85C—Amber series of conversion filters for use with color films.

Light Balancing

81, 81A, 81B, 81C, 81D, 81EF—Yellowish series of light-balancing filters.
82, 82A, 82B, 82C—Bluish series of light-balancing filters.

KoMiscellaneous

87, 87C	Visibly opaque infrared filters.
89B	Visibly opaque. Infrared photography, especially aerial.
90	Dark grayish amber.
92	Red. Color densitometry.
96	Neutral Density Filter No. 96.
98	Blue. Equivalent to No. 47B plus No. 2B filter.
99	Green. Equivalent to No. 61 plus No. 16 filter.
102	Yellow-green. Converts barrier-layer photocell response to eye luminosity response.
106	Amber. Converts an S-4 type photocell response to the eye-luminosity response.

Note: For more information about filters, see Publication B-3, KODAK Photographic Filters Handbook, available through your photographic dealer.

FILTER TYPES

KODAK WRATTEN Gelatin Filters

Basic Colors Filters - Used to alter the color wavelength of light

Special Dye Color Filters – Color filters that incorporate rare dye materials. Used to alter the color wavelength of light.

Color Conversion Filters - Enable significant adjustments in the color temperature of the illumination are required (e.g., daylight to artificial light).

Light Balancing Filters - Enable minor adjustments in the color quality of illumination to obtain cooler (bluish) or warmer (yellowish) color rendering.

Infrared Filters - For use in infrared photographic applications.

Neutral Density No. 96 Filters - Used to reduce the intensity of light by a definite ratio, without affecting the tonal rendition of colors. Neutrality is good for the visible spectrum only.

Color Compensating Filters - Control changes in the color balance of images recorded on color films, or compensate for deficiencies in the spectral quality of a light source.

KODAK Color Printing Filters (Acetate)

KODAK Color Printing Filters (Acetate*) Cyan-2 - Acetate filters similar to gelatin-Cyan-2 filters, only with greater red/infrared absorption where print materials may have more sensitivity. *Not suitable for image-forming light beams.

KODAK Color Printing Filters (Acetate*) - Acetate filters used over the light source of enlargers and contact printers to effect color corrections. *Not suitable for image-forming optical systems.

KODAK Polymax Filters

Used to control contrast on selective contrast papers. Available in sets for use above the enlarger condenser or as a kit used below the enlarger lens.

KODAK WRATTEN GELATIN Filters

Basic Colors Filters - Used to alter the color wavelength of light

Filter No.	Description/Use
2A	Pale yellow. Absorbs ultraviolet radiation.
2B	Pale yellow. Absorbs ultraviolet radiation, slightly less than No. 2A.
2E	Pale yellow. Absorbs more ultraviolet radiation than No. 2A.
8	Yellow. Transmits less blue than No. 3.
11	Yellowish-green. Corrects panchromatic film rendition to match tungsten impression of scene.
12	Deep yellow. Minus blue filter (see No. 32 for minus-green and No. 44A for minus-red).
15	Deep yellow. Darkens sky in landscape photography.
16	Yellow-orange. Greater over-correction of sky than No. 15.
22	Deep orange. Contrast filter, greater effect than No. 21.
24	Red.
25	Red tricolor. Color separation work, tricolor printing, and infrared photography.
29	Red. Color separation with Nos. 47 and 61 and tricolor printing work.
47	Blue tricolor. Color separation work with Nos. 29 and 61.
58	Green tricolor. Color separation and tricolor printing.
90	Dark grayish amber.
99	Green. Equivalent to No. 61 plus No. 16 filter.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	75mm (3-inch) Square	TIFFEN ITEM NUMBER		
		100mm (4-inch) Square	150mm (6-inch) Square*	350mm x 450mm (14 x 18-in.)*
2A	EK 170 3909	EK 170 4386	EK 164 4988	EK 112 1748
2B	EK 149 5431	EK 149 6918	EK 170 7157	EK 112 1722
2E	EK 176 0875	EK 176 5114	EK 166 7799	EK 143 4158
8	EK 149 5498	EK 149 6967	EK 170 6928	EK 112 1664
11	EK 149 5514	EK 149 6983	EK 170 6787	
12	EK 149 5522	EK 149 6991	EK 170 6795	EK 123 4335
15	EK 149 5548	EK 149 7015	EK 170 6803	EK 134 8440
16	EK 149 5555	EK 149 7023	EK 170 7165	EK 143 4091
22	EK 149 5571	EK 149 7049	EK 168 2400	EK 197 8139
24	EK 149 5597	EK 149 7064	EK 165 1140	
25	EK 149 5605	EK 149 7072	EK 170 6811	EK 112 1607
29	EK 149 5621	EK 149 7098	EK 170 6829	EK 112 1565
47	EK 149 5787	EK 149 7205	EK 170 6845	EK 112 1466
58	EK 149 5860	EK 149 7395	EK 170 6852	EK 112 1789
90	EK 149 6280	EK 149 7783	EK 823 2498	
99	EK 149 6306	EK 174 0901	EK 176 0925	EK 127 2749

* Orders for this size filter requires an 8 week lead time

KODAK WRATTEN GELATIN Filters, *cont.*

Special Dye Color Filters – Color filters that incorporate rare dye materials. Used to alter the color wavelength of light.

Filter

Filter No.	Description/Use
3	Light yellow. Absorbs excessive sky blue.
9	Deep yellow. More dramatic effect than No. 8.
21	Orange. Contrast filter for blue and blue-green absorption.
26	Red.
32	Magenta. Minus-green (No. 12 is minus-blue, No. 44A is minus-red).
34A	Violet. For minus-green and plus-blue separation.
38A	Blue. Absorbs red, some UV and green light.
44	Light blue-green. Minus-red filter with much UV absorption.
44A	Light blue-green. Minus-red (No. 12 is minus-blue, and No. 32 is minus-green)
47A	Light blue. Exciting fluorescein dyes in medical applications.
47B	Deep blue tricolor. Color separation and tricolor work.
61	Deep green tricolor. Tricolor work with Nos. 29 and 47.
92	Red. Color densitometry.
98	Blue. Equivalent to No. 47B plus No. 2B filter.
102	Yellow-green. Converts barrier-layer photocell response to eye luminosity response.
106	Amber. Converts an S-4 type photocell response to the eye-luminosity response.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	75mm (3-inch) Square	TIFFEN ITEM NUMBER		
		100mm (4-inch) Square	150mm (6-inch) Square*	350mm x 450mm (14 x 18-in.)*
3	EK 149 5464	EK 149 6926	EK 170 7116	EK 121 6126
9	EK 149 5506	EK 149 6975	EK 170 6779	
21	EK 149 5563	EK 149 7031	EK 170 7066	EK 198 1802
26	EK 149 5613	EK 149 7080	EK 163 5648	EK 112 1581
32	EK 149 5654	EK 149 7122	EK 173 4342	EK 161 9691
34A	EK 149 5688	EK 149 7155	EK 179 4650	EK 143 4034
38A	EK 149 5720	EK 149 7197	EK 832 8213	EK 112 2258
44	EK 149 5746	EK 149 7213	EK 147 1283	EK 191 7582
44A	EK 149 5753	EK 149 7221	EK 172 8344	EK 143 4133
47A	EK 175 5776	EK 176 3945	EK 175 6469	EK 112 1441
47B	EK 149 5795	EK 149 7270	EK 170 7058	EK 112 1425
61	EK 149 5894	EK 149 7445	EK 170 6977	EK 130 5028
92	EK 176 9348	EK 178 0121	EK 179 5764	EK 112 1086
98	EK 149 6298	EK 174 0893	EK 176 0917	EK 124 5307
102	EK 170 4048	EK 187 7034		EK 142 9141
106	EK 170 4055	EK 187 7042		

* Orders for this size filter requires an 8 week lead time

KODAK WRATTEN GELATIN Filters, *cont.*

Color Conversion Filters - Enable significant adjustments in the color temperature of the illumination are required (e.g., daylight to artificial light).

80A, 80B, 80C, 80D

Blue series of conversion filters for use with color films.

85, 85N3, 85N6, 85N9, 85B, 85C

Amber series of conversion filters for use with color films.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	75mm (3-inch) Square	TIFFEN ITEM NUMBER		
		100mm (4-inch) Square	150mm (6-inch) Square*	350mm x 450mm (14 x 18-in.)*
80A	EK 184 0867	EK 184 3663	EK 185 1872	
80B	EK 149 6041	EK 149 7536	EK 178 6045	EK 123 9433
80C	EK 153 5707	EK 177 6475	EK 172 8328	EK 145 4610
80D	EK 184 0883	EK 184 3689	EK 112 0468	
85	EK 149 6165	EK 149 7692	EK 170 7132	EK 143 9397
85N3	EK 149 6199	EK 183 9141		
85N6	EK 149 6207	EK 183 9158		
85N9	EK 102 1401	EK 102 3027		
85B	EK 149 6173	EK 149 7700	EK 170 7280	EK 112 1185
85C	EK 149 6181	EK 149 7718	EK 175 8903	

* Orders for this size filter requires an 8 week lead time

Light Balancing Filters - Enable minor adjustments in the color quality of illumination to obtain cooler (bluish) or warmer (yellowish) color rendering.

81, 81A, 81B, 81C, 81D, 81EF

Yellowish series of light-balancing filters.

82, 82A, 82B, 82C

Bluish series of light-balancing filters.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	75mm (3-inch) Square	TIFFEN ITEM NUMBER	
		100mm (4-inch) Square	150mm (6-inch) Square*
81	EK 149 6058	EK 149 7551	EK 170 6712
81A	EK 149 6066	EK 149 7569	EK 176 6088
81B	EK 149 6074	EK 149 7577	EK 168 3457
81C	EK 149 6082	EK 149 7585	EK 188 9377
81D	EK 149 6090	EK 149 7593	EK 168 3697
81EF	EK 149 6108	EK 149 7601	EK 187 3504
82	EK 149 6116	EK 149 7619	EK 168 3242
82A	EK 149 6124	EK 149 7627	EK 168 3465
82B	EK 149 6132	EK 149 7635	EK 175 2799
82C	EK 149 6140	EK 149 7643	EK 170 6647

KODAK WRATTEN GELATIN Filters, *cont.*

Infrared Filters - For use in infrared photographic applications.

87, 87C

Visibly opaque.

89B

Visibly opaque
(useful for aerial
applications).

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	75mm (3-inch) Square	TIFFEN ITEM NUMBER			
		100mm (4-inch) Square	150mm (6-inch) Square*	350mm x 450mm (14 x 18-in.)*	
87	EK 149 6256	EK 149 7759	EK 170 7033	EK 112 1144	
87C	EK 170 4030	EK 170 4543	EK 173 4334	EK 112 1128	
89B	EK 149 6272	EK 149 7775	EK 170 7140	EK 147 4626	

* Orders for this size filter requires an 8 week lead time

Neutral Density No. 96 Filters - Used to reduce the intensity of light by a definite ratio, without affecting the tonal rendition of colors. Neutrality is superb only in the visible spectrum.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	% Trans	TIFFEN ITEM NUMBER			
		75mm (3-inch) Square	100mm (4-inch) Square	150mm (6-inch) Square*	350mm x 450mm (14 x 18-in.)*
0.10	80.0	EK 149 6314	EK 149 7304	EK 170 7090	EK 112 2605
0.20	63.0	EK 149 6322	EK 149 7312	EK 170 7180	EK 141 0109
0.30	50.0	EK 149 6330	EK 149 7320	EK 149 9557	EK 140 0043
0.40	40.0	EK 149 6348	EK 149 7338	EK 170 6860	EK 141 0083
0.50	32.0	EK 149 6355	EK 149 7346	EK 170 7082	EK 141 0067
0.60	25.0	EK 149 6363	EK 149 7353	EK 149 9565	EK 112 2431
0.70	20.0	EK 149 6371	EK 149 7361	EK 170 7306	EK 141 0042
0.80	16.0	EK 149 6389	EK 177 1369	EK 170 7348	EK 141 0026
0.90	13.0	EK 149 6397	EK 149 7387	EK 170 7330	EK 141 0992
1.00	10.0	EK 149 6405	EK 149 7809	EK 170 6878	EK 141 0976
2.00	1.0	EK 149 6413	EK 149 7817	EK 170 6886	EK 141 5033
3.00	0.10	EK 149 6421	EK 149 7825	EK 170 6894	EK 141 5355
4.00	0.010	EK 149 6439	EK 149 7833	EK 170 6902	EK 141 5439

* Orders for this size filter requires an 8 week lead time

KODAK WRATTEN GELATIN Filters, *cont.*

Color Compensating Filters -

Control color by attenuating principally the red, green, or blue part of the spectrum. Can be used to make changes in the color balance of images recorded on color films, or compensate for deficiencies in the spectral quality of a light source.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	75mm (3-inch) Square	TIFFEN ITEM NUMBER		
		100mm (4-inch) Square	150mm (6-inch) Square*	350mm x 450mm (14 x 18-in.)*
CC025CEK 170 4089		EK 170 4550	EK 163 8196	EK 143 1055
CC05CEK 149 6520		EK 149 7908	EK 170 7421	EK 112 2415
CC10CEK 149 6538		EK 149 7916	EK 170 7439	EK 112 2399
CC20CEK 149 6546		EK 149 7924	EK 170 7447	EK 112 2373
CC30CEK 149 6553		EK 149 7932	EK 170 7454	EK 129 7282
CC40CEK 149 6561		EK 149 7940	EK 170 7462	EK 144 4538
CC50CEK 149 6579		EK 149 7957	EK 170 7470	EK 147 0004
CC025MEK 170 4105		EK 170 4568	EK 184 9868	EK 143 1196
CC05MEK 149 6645		EK 149 8021	EK 170 7546	EK 142 4761
CC10MEK 149 6652		EK 149 8039	EK 170 7553	EK 142 4969
CC20MEK 149 6660		EK 149 8047	EK 170 7561	EK 142 4993
CC30MEK 149 6678		EK 149 8054	EK 170 7579	EK 142 5081
CC40MEK 149 6686		EK 149 8062	EK 170 7587	EK 142 5180
CC50MEK 149 6694		EK 149 8070	EK 170 7595	EK 144 2656
CC025YEK 170 4121		EK 184 3911	EK 160 4107	EK 143 1451
CC05Y EK 149 6769		EK 149 8146	EK 170 7660	EK 112 2316
CC10Y EK 149 6777		EK 149 8153	EK 170 7678	EK 112 2290
CC20Y EK 149 6785		EK 149 8161	EK 170 7686	EK 112 2274
CC30Y EK 149 6793		EK 149 8179	EK 170 7694	EK 142 5453
CC40Y EK 149 6801		EK 149 8187	EK 170 7702	EK 145 2507
CC50Y EK 149 6819		EK 149 8195	EK 170 7710	EK 145 2515
CC025R EK 140 1215		EK 140 3641	EK 168 9975	EK 143 1410
CC05R EK 149 6702		EK 149 8088	EK 170 7603	EK 122 6141
CC10R EK 149 6710		EK 149 8096	EK 170 7611	EK 142 5537
CC20R EK 149 6728		EK 149 8104	EK 170 7629	EK 158 3509
CC30R EK 149 6736		EK 149 8112	EK 170 7637	
CC40R EK 149 6744		EK 149 8120	EK 170 7645	
CC50R EK 149 6751		EK 149 8138	EK 170 7652	EK 125 7864
CC025G EK 148 2983		EK 101 8886	EK 140 0886	EK 143 1139
CC05G EK 149 6587		EK 149 7965	EK 170 7488	EK 183 7251
CC10G EK 149 6595		EK 149 7973	EK 170 7496	EK 173 9267
CC20G EK 149 6603		EK 149 7981	EK 170 7504	EK 112 2357
CC30G EK 149 6611		EK 149 7999	EK 170 7512	
CC40G EK 149 6629		EK 149 8005	EK 170 7520	
CC50G EK 149 6637		EK 149 8013	EK 170 7538	EK 112 2332
CC025B EK 142 8788		EK 143 6484	EK 143 8266	EK 143 1030
CC05B EK 149 6462		EK 149 7841	EK 170 7363	EK 122 6109
CC10B EK 149 6470		EK 149 7858	EK 170 7371	EK 122 6281
CC20B EK 149 6488		EK 149 7866	EK 170 7389	EK 197 2942
CC30B EK 149 6496		EK 149 7874	EK 170 7397	EK 180 0549
CC40B EK 149 6504		EK 149 7882	EK 170 7405	EK 145 6888
CC50B EK 149 6512		EK 149 7890	EK 170 7413	EK 172 2289

* Orders for this size filter requires an 8 week lead time.

KODAK Color Printing Filters (Acetate)

KODAK Color Printing Filters (Acetate*) Cyan-2 - Acetate filters similar to gelatin-Cyan-2 filters, only with greater red/infrared absorption. *Not suitable for image-forming light beams.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	TIFFEN ITEM NUMBER	
	150mm (6-inch) Square*	300mm x 350mm (12 x 14-in.)*
CP025C-2	EK 143 1972	EK 125 6387
CP05C-2	EK 143 1998	EK 131 5076
CP10C-2	EK 143 2004	EK 134 3300
CP20C-2	EK 143 2020	EK 195 8883
CP40C-2	EK 143 2046	EK 191 0900

KODAK Color Printing Filters (Acetate*) - Acetate filters used over the light source of enlargers and contact printers to effect color corrections. *Not suitable for image-forming optical systems.

When ordering these filters please refer to the chart below for the item number that corresponds to the filter and size you desire.

Filter No.	TIFFEN ITEM NUMBER	
	150mm (6-inch) Square*	300mm x 350mm (12 x 14-in.)*
CP05C	EK 154 4790	EK 835 3674
CP10C	EK 154 4808	EK 840 8957
CP20C	EK 154 4816	EK 169 8687
CP40C	EK 154 4824	EK 823 8172
CP05M	EK 154 4832	EK 814 7027
CP10M	EK 154 4840	EK 847 2425
CP20M	EK 154 4857	EK 849 4593
CP40M	EK 154 4865	EK 849 5061
CP05R	EK 155 1670	EK 813 1427
CP10R	EK 155 1688	EK 818 4913
CP20R	EK 155 1696	EK 819 5331
CP40R	EK 155 1704	EK 826 6967
CP05Y	EK 154 4873	EK 837 4662
CP10Y	EK 154 4881	EK 816 2612
CP20Y	EK 154 4899	EK 843 4441
CP40Y	EK 154 4907	EK 801 5224
CP2B	EK 154 4782	EK 812 2061

KODAK POLYMAX Filters

KODAK POLYMAX Filter Set - Controls the contrast of Kodak selective-contrast papers. Can be used above the enlarger lens. Provides an expanded range of filter contrast grades from approximately Grade -1 to Grade 5+. Filter 2 is considered "normal" and provides the contrast of a typical white-light exposure. Each set includes -1, 0, 1/2, 1, 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5+.

Please refer to the chart below for the item number that corresponds to the filter set you desire.

<u>Tiffen Item #</u>	<u>Description</u>
EK 365 7699	90 x 90 mm - Set of 12
EK 366 1949	150 x 150 mm - Set of 12

KODAK POLYMAX Filter Kit - Similar to the set described above, except mounted in plastic filter mounts. Intended to be used below the lens. Supplied in a hinged plastic box with a filter holder and adapters to fasten the holder to the red filter post or to the lens.

When ordering this product filters please the Tiffen Item Number below.

<u>Tiffen Item #</u>	<u>Description</u>
EK 365 6212	Set of 12 filters with holder

Other KODAK POLYMAX Filter Products

<u>Tiffen Item #</u>	<u>Description</u>
EK 364 9027	Polymax - 1&5+ 90mm Polycntrst II
EK 365 4779	Polymax - 1&5+ Upgrade Polycntrst II
EK 366 0677	Polymax - 1&5+ 150mm f/ Polycntrst II
EK 365 7798	Polymax II Filter Set 300 x 350mm

KODAK Exposure control devices are used to calibrate and maintain optimum exposures for reflection and transmitted light.

KODAK REFLECTIVE GRAY SCALES AND STEP TABLETS

Q-13 / Q-14 (Small / Large)

KODAK Color Separation Guides and Gray Scales

The KODAK Color Separation Guide helps:

- Photographers compare the color of the subject with known printing colors
- Graphic arts camera operators identify separation negatives and positives for color reproduction processes

The KODAK Gray Scale is a quality-control device that helps:

- Compare tone values of reflection copy with its reproduction
- Find the correct exposure and processing conditions
- Balance negatives and positives in a color reproduction process
- Plot tone reproduction curves

Each packet contains: one set of KODAK Color Control Patches (nine patches) that includes:

- Two saturations of each patch; each patch is 1-1/2 x 3/4 inches.
- One KODAK Gray Scale (20 steps in 0.10 density increments between 0.0 [white] and a practical printing black of 1.90 density); approximately 3/4 x 1-1/4 inches
- One KODAK Color Separation Guide

<u>Tiffen Item #</u>	<u>Description</u>
EK 152 7654	Q-13 Clr Separation Guide (Small 8")
EK 152 7662	Q-14 Clr Separation Guide (Large 14")

Q-16

KODAK Reflection Density Guide 24-Step

- 24-step Kodak Gray Scale with a density range of 0.00 and 2.00
 - from 0.00 to 0.30 the density increment is 0.05
 - from 0.30 to 2.00 the density increment is 0.10
- Background of the scale is neutral gray (18% reflectance)
- Gray scale patches are surface mounted
- The size of the scale is 7-3/4 x 10 inches

<u>Tiffen Item #</u>
EK 146 5947

Q-53

KODAK Control Scale, R-14

- 14-step Kodak Gray Scale with a density range of 0.05 to 2.00 in density increments of 0.15 (a two step shift is equal to a change of 1 f-stop or a doubling/halving of the exposure)
- A line grid is incorporated for checking camera focus

<u>Tiffen Item #</u>
EK 149 3485

Q-61

KODAK Scanner Gray Scale, SR-37

37-step Kodak Gray Scale with a density range of 0.05 to 1.85 in density increments of 0.05.

<u>Tiffen Item #</u>
EK 102 4579

KODAK Paper Gray Scale

Reflection photographic gray scales are available calibrated or uncalibrated, and are intended for inclusion in the original scene to be photographed. They are helpful in balancing and identifying color separation negatives. These silver-density gray scales are printed on glossy, medium-weight photographic paper.

<u>Tiffen Item #</u>	<u>Description</u>
EK 152 2267	Calibrated 2 x 10"
EK 152 2259	Uncalibrated 2 x 10"
EK 152 2283	Calibrated 8 x 10"
EK 152 2275	Uncalibrated 8 x 10"

KODAK Reflection Densitometer Check Plaque

For checking spectral sensitivity of color reflection densitometers to obtain closer printing and processing color control. For use with electronic densitometers.

- Dimensions: 1-5/16 x 8-1/2 inches

<u>Tiffen Item #</u>
EK 140 5026

KODAK TRANSMISSION GRAY SCALES AND STEP TABLETS

Q-55

KODAK Control Scale, T-14

- 14-step Kodak Gray Scale with a density range of 0.04 to 2.05 in density increments of 0.15 (a two step shift is equal to a change of 1 f-stop or a doubling/halving of the exposure).

Tiffen Item #

EK 107 7999

Q-58

KODAK Color Separation Step Tablet, T-27

- 27-step Kodak Step Gray Scale with standard A (highlight), M (midtone), and B (shadow) steps.
- Includes a reference card for both nominal densities and photo reproduction.

Tiffen Item #

EK 110 1484

Q-59

KODAK Scanner Step Tablet, ST-34

- 34-step Kodak Step tablet with a density range of 0.05 to 3.45 in density increments of 0.10.
- Same carbon dye density material as the Kodak Wratten 96 Neutral Density Filters.
- Made of M-Type Carbon material.

Tiffen Item #

EK 102 4512

Q-94

KODAK Contact Control Guide, C-3

- 150-line-per-inch hard dot scale that ranges from 5% dot to 95% dot in 5% dot increments.
- Three 200-line-per-inch screen tint blocks—5%, 50%, and 95%.
- Registration targets
- Spread-and-choke line guide
- D-min. and D-max. patch
- T-14 Kodak Gray Scale

Tiffen Item #

EK 102 3969

R-26

KODAK Projection Print Scale

- Circular text target broken into 10 pie-shaped wedges. Each piece is a different density to give the user an accurate text print with just one exposure.
- Exact densitometric specifications give you no contrast shifts.

Tiffen Item #

EK 155 7248

STOCKED PHOTOGRAPHIC STEP TABLETS (FILM)

The following standard neutral density products are factory-stocked.

KODAK Photographic Step Tablet

Useful in making color prints from KODACHROME and KODAK EKTACHROME Film transparencies when a gray scale was not included in the original scene. Silver-density photographic step tablets are useful in a variety of sensitometric or densitometric applications, but not in image-forming light beams. Also used for making internegatives with KODAK Commercial Internegative Film.

	No. 1A	No. 2	No. 3
Steps	11	21	21
Step Width	3.75 mm	5 mm	10.16 mm
Density Range	0.05-3.05	0.05-3.05	0.05-3.05
Density Increment	0.30	0.15	0.15
Tinted Area	3/4 x 1-5/8"	1 x 4-1/8"	35mm x 8-7/16"
Finished Size	3/4 x 3-3/16"	1 x 5-1/2"	35mm x 9-7/8"

Tiffen Item #

EK 152 3380 Uncalibrated, No. 1A
 EK 152 3398 Uncalibrated, No. 2
 EK 152 3406 Calibrated, No. 2
 EK 152 3414 Uncalibrated, No. 3
 EK 152 3422 Calibrated, No. 3

KODAK SPECIAL ORDER PHOTOGRAPHIC STEP TABLETS

The following silver-density ND filters are made to order and are non-returnable products.

KODAK Special Photographic Step Tablets

Exposed 8 x 10-inch black-and-white photographic film with steps parallel to the 8-inch dimension. Unless otherwise specified, all step tablets will begin at the top (D-min) of the tablet. Tablets are also available centered along the 10-inch dimension of the tablet. The effective area depends upon the particular tablet. Although many possibilities exist, only the CAT Nos. listed below have been designated, depending upon the maximum density category.

Tiffen Item #	Description
EK 161 1029	Uncalibrated, densities to 3.05
EK 167 7905	Uncalibrated, densities greater than 3.05
EK 166 5520	Calibrated, densities to 3.05
EK 102 4090	Calibrated, densities greater than 3.05

Note: Other parameters must be specified with order.

When ordering the step tablets listed above, specify the following information:

1. Cat. No.
2. Number of steps
3. Step width
4. Density increment
5. Density range
6. Calibrated or uncalibrated
7. Step position (centered or at top)
8. Quantity

Orders that do not contain all the above information will not be accepted. Delivery: 60-120 days after receipt of order in Rochester.

KODAK Photographic Flashed Density (Film)

Pieces of photographic film uniformly exposed and processed to a single silver density; they are available in a variety of density values. Available in 4 x 5 and 8 x 10-inch sizes. Density supplied is ± 5% or ± 0.02 density units, whichever is greater.

Tiffen Item #	Density Range / Size
EK 164 7718	0.05-1.05 / 4 x 5"
EK 173 4532	1.06-2.05 / 4 x 5"
EK 173 4615	1.06-2.05 / 8 x 10"
EK 173 4540	2.06-3.05 / 4 x 5"
EK 173 4623	2.06-3.05 / 8 x 10"

Note: A single density within a particular range must be specified.

When ordering, specify the following information:

1. Cat. No.
2. Density to nearest 0.01 value
3. Quantity

Delivery: 60-120 days after receipt of order.

DARKROOM ACCESSORIES

Lens Cleaning Tissue

Designed for use with delicate lenses and sensitive surfaces. Ideal for coated optics and laser cleaning applications. Features:

- High wet strength
- Extremely soft and non-abrasive
- Meets government lens paper specifications; Type 1, Class 1 product Specification AA-50177

Tiffen Item #

EK 154 6027 *

* Sales unit = 50 envelopes containing 50 sheets (2-3/4 x 4-1/2") of tissue per envelope

KODAK Automatic Tray Siphon

Converts an ordinary tray to an efficient device for washing prints, enlargements, films, and plates. Automatically maintains desired water level in tray and discharges washing water directly into sink. Operates from any standard faucet.

Tiffen Item #

EK 147 7231

KODAK Darkroom Thermometer

5-3/4-inch Fahrenheit scale thermometer; gives temperature readings from -10° to 120°F in 2-degree increments.

- Accuracy: ±1/2°F at all points between 60°F and 90°F
- Contains alcohol

Tiffen Item #

EK 112 2142

KODAK Deluxe Darkroom Thermometer

10-inch Fahrenheit scale thermometer.

- Accuracy: ±1/2°F at 75°F and at 68°F; ±1°F at all other points
- Contains alcohol

Tiffen Item #

EK 112 2167

KODAK Tank and Tray Thermometer

Pivoted spring clip in the back holds thermometer in either tank or tray. Scale readings from 30 to 140°F in 2-degree increments. Has Celsius scale also. Length, 4-7/8 inches.

- Contains alcohol

Tiffen Item #

EK 112 2183

KODAK Darkroom Apron

Tough, moistureproof Vinylite apron with drip cuff used to protect clothing and shoes.

- Black with white piping; approximately 30 x 34 inches

Tiffen Item #

EK 149 9599

KODAK Master Print Roller

Large professional-type rollers. Precision-ground to close tolerances for uniform contact over entire print area.

- Lightweight, rust resistant

Tiffen Item # Description

EK 147 7116 12" Roller

EK 147 7124 17" Roller

KODAK Mixing Paddle Assembly

For obtaining a homogeneous mixture of solutions in KODAK Chemical Storage Tanks.

Tiffen Item #

EK 110 3290

KODAK Floating Lid

For retarding chemical oxidation. Used with KODAK Hard Rubber Tanks.

Tiffen Item # Description

EK 152 1798 4 x 5" Lid

EK 152 1814 8 x 10" Lid

FINISHING ACCESSORIES

KODAK Dry Mounting Tissue, Type 2

Provides quick, safe, permanent way of mounting prints at lower press temperatures. Well suited for mounting resin-coated paper prints. Use with dry mounting press or household iron.

<u>Tiffen Item #</u>	<u>Size in. x in.</u>	<u>Quan./ Pack</u>
EK 104 5020	5 x 7	100
EK 140 5570	8 x 10	25
EK 104 5046	8 x 10	100
EK 140 5935	11 x 14	25
EK 104 5061	11 x 14	100
EK 140 6172	16 x 20	25
EK 104 5103	16 x 20	100

<u>Tiffen Item #</u>	<u>Size in. x yd.</u>	<u>Quan./ Pack</u>
EK 140 6230	20 x 10	1 Roll
EK 148 0102	20 x 50	1 Roll

KODAK Sleeves

Transparent protective acetate covering that allows immediate identification and inspection of color transparencies and negatives.

<u>Tiffen Item #</u>	<u>Size in. x in.</u>	<u>Quan./ Pack</u>
EK 152 3224	2-1/4 x 2-1/4	100
EK 152 3232	2-1/4 x 3-1/4	100
EK 152 3240	2-1/2 x 3-1/2	100
EK 150 3812	3-1/4 x 4-1/4	100
EK 152 3265	4 x 5	100
EK 152 3273	5 x 7	100
EK 152 3281	8 x 10	100
EK 152 3299	11 x 14	100

KODAK Cotton Gloves

Lightweight gloves for wear when handling negatives and transparencies.

<u>Tiffen Item #</u>	<u>Size</u>	<u>Gloves/ Pack</u>
EK 841 5069	Small	12 pair
EK 807 2761	Large	12 pair

KODAK Camel's-Hair Brush

Ideal for dusting negatives before printing or enlarging. When used properly, brushes give exceptionally long service without shedding.

<u>Tiffen Item #</u>	<u>Description</u>
EK 149 9714	1-inch
EK 149 9722	2-inch

KODAK Negative Pencil

<u>Tiffen Item #</u>
EK 152 2010 *

* Sales unit = 1 package of 12