KODAK Aerial Film Specifications and Sp Numbers

KODAK Aerial Films, both black and white and color, are available in sizes to fit all American mapping and reconnaissance cameras, as well as standard European mapping cameras and many special aerial cameras. Kodak specification (Sp) numbers have been assigned to identify film width, spool sizes and design, type of perforations if used, and other details for regularly supplied sizes. The following tables are a partial list of aerial films on ESTAR Base, their Kodak Sp numbers, and key specifications.

ESTAR Base Black-and-White Films:

		Film Length (without leader or trailer)							
Sp	**Film Width**	**ESTAR Thin Base (2.5-mil)**	**ESTAR Base (3.9-mil)**	**ESTAR Thick Base (7-mil)**	**ISO 14546 Spool No.**	**Kodak Spool No.**	**Core Diameter (inches)**	**Flange Diameter (inches)**	**Spool Material***
492**	70 mm	50 ft	40 ft	—	—	S-147	31/32	2 1/8	A
493**	70 mm	100 ft	75 ft	—	2	S-148	31/32	2 5/8	A
494**	70 mm	200 ft	150 ft	100 ft	3	S-241	31/32	3 3/4	A
533**	70 mm	500 ft	350 ft	200 ft	4	S-242	2 1/8	5 15/16	A
536	70 mm	500 ft	350 ft	200 ft	4	S-242	2 1/8	5 15/16	A
527**	70 mm	1,000 ft	700 ft	400 ft	5	S-151	2 1/8	7 5/8	S
514	70 mm	1,000 ft	700 ft	400 ft	5	S-151	2 1/8	7 5/8	S
534	70 mm	2,000 ft	1,400 ft	800 ft	6	S-243	2 1/8	10 1/2	A
535**	70 mm	Var.	Var.	—	—	F-95***	1 3/32	—	S
931	5 in	100 ft	—	—	—	S-32	1 1/4	2 3/4	S
991	5 in	200 ft	150 ft	—	8	S-33	1 1/4	3 3/4	S
883	5 in	500 ft	350 ft	200 ft	—	S-238	2 1/8	5 15/16	A
897†	5 in	500 ft	350 ft	200 ft	—	S-238	2 1/8	5 15/16	A
884	5 in	1,000 ft	700 ft	400 ft	—	S-239	2 1/8	7 5/8	A
898†	5 in	1,000 ft	700 ft	400 ft	—	S-239	2 1/8	7 5/8	A
886	5 in	2,000 ft	1,400 ft	800 ft	—	S-240	2 1/8	10 1/2	A
899†	5 in	2,000 ft	1,400 ft	800 ft	—	S-240	2 1/8	10 1/2	A
949	9 1/2 in	200 ft	125 ft	—	—	S-43	2 1/8	4	S
952	9 1/2 in	400 ft	250 ft	150 ft	—	S-46	2 1/8	5 3/16	S
981††	9 1/2 in	—	250 ft	—	—	S-46	2 1/8	5 3/16	S
955	9 1/2 in	500 ft	350 ft	200 ft	18	S-47	2 1/8	5 15/16	S
957	9 1/2 in	700 ft	500 ft	300 ft	—	S-48	2 1/8	6 5/8	S
961	9 1/2 in	1,000 ft	700 ft	400 ft	20	S-50	2 1/8	7 5/8	S
990	9 1/2 in	2,000 ft	1,400 ft	800 ft	22	S-113	2 1/8	10 1/2	S

*A—Black Enamel Baked on Aluminum; S—Black Painted Steel.
**Type II perforations—in accordance with ANSI PH1.10-1976.
*** Vinten Core.

†KODAK Standard Perforations (2 edges).
††Film slot taped.

KODAK AERIAL FILM SPECIFICATIONS AND SP NUMBERS

ESTAR Base Color Films:

In general, KODAK Color Film emulsions are slightly thicker than black-and-white film emulsions.

Sp	Film Width	ESTAR Thin Base (2.5-mil)	ESTAR Base (3.9-mil)	ISO 14546 Spool No.	Kodak Spool No.	Core Diameter (inches)	Flange Diameter (inches)	Spool Material*
		Film Length (without leader or trailer)						
492**	70 mm	—	35 ft	—	S-147	31/32	2 1/8	A
493**	70 mm	100 ft	—	2	S-148	31/32	2 5/8	A
494**	70 mm	200 ft	100 ft	3	S-241	31/32	3 3/4	A
533**	70 mm	400 ft	300 ft	4	S-242	2 1/8	5 15/16	A
527**	70 mm	800 ft	600 ft	5	S-151	2 1/8	7 5/8	S
991	5 in	200 ft	100 ft	8	S-33	1 1/4	3 3/4	S
883	5 in	400 ft	300 ft	—	S-238	2 1/8	5 15/16	A
897†	5 in	400 ft	300 ft	—	S-238	2 1/8	5 15/16	A
884	5 in	800 ft	600 ft	—	S-239	2 1/8	7 5/8	A
898†	5 in	800 ft	600 ft	—	S-239	2 1/8	7 5/8	A
886	5 in	1,600 ft	1,200 ft	—	S-240	2 1/8	10 1/2	A
899†	5 in	1,600 ft	1,200 ft	—	S-240	2 1/8	10 1/2	A
949	9 1/2 in	150 ft	125 ft	—	S-43	2 1/8	4	S
952	9 1/2 in	300 ft	200 ft	—	S-46	2 1/8	5 3/16	S
981††	9 1/2 in	—	200 ft	—	S-46	2 1/8	5 3/16	S
955	9 1/2 in	400 ft	300 ft	18	S-47	2 1/8	5 15/16	S
957	9 1/2 in	600 ft	400 ft	—	S-48	2 1/8	6 5/8	S
961	9 1/2 in	800 ft	600 ft	20	S-50	2 1/8	7 5/8	S
990	9 1/2 in	1,600 ft	1,200 ft	22	S-113	2 1/8	10 1/2	S

*A—Black Enamel Baked on Aluminum; S—Black Painted Steel.
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