

# ND-FILTER CHART by @wolf.amri

Steps*	ND Filter Units			Shutter Speed START Value											
	Light-Loss	Optical Density	Stops	1/8000sec	1/4000sec	1/2000sec	1/1000sec	1/500sec	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec
3	2	0,3	1	1/4000sec	1/2000sec	1/1000sec	1/500sec	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec
6	4	0,6	2	1/2000sec	1/1000sec	1/500sec	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec
9	8	0,9	3	1/1000sec	1/500sec	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec
12	16	1,2	4	1/500sec	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec
15	32	1,5	5	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec	8sec
18	64	1,8	6	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec	8sec	15sec
21	128	2,1	7	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec	8sec	15sec	30sec
24	256	2,4	8	1/30sec	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec	8sec	15sec	30sec	1min
27	512	2,7	9	1/15sec	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec	8sec	15sec	30sec	1min	2min
30	1024	3,0	10	1/8sec	1/4sec	1/2sec	1sec	2sec	4sec	8sec	15sec	30sec	1min	2min	4min
33	2048	3,3	11	1/4sec	1/2sec	1sec	2sec	4sec	8sec	15sec	30sec	1min	2min	4min	8min
36	4096	3,6	12	1/2sec	1sec	2sec	4sec	8sec	15sec	30sec	1min	2min	4min	8min	15min
39	8192	3,9	13	1sec	2sec	4sec	8sec	15sec	30sec	1min	2min	4min	8min	15min	30min
42	16384	4,2	14	2sec	4sec	8sec	15sec	30sec	1min	2min	4min	8min	15min	30min	1h
45	32768	4,5	15	4sec	8sec	15sec	30sec	1min	2min	4min	8min	15min	30min	1h	2h
48	65536	4,8	16	8sec	15sec	30sec	1min	2min	4min	8min	15min	30min	1h	2h	4h
51	131072	5,1	17	15sec	30sec	1min	2min	4min	8min	15min	30min	1h	2h	4h	8h
54	262144	5,4	18	30sec	1min	2min	4min	8min	15min	30min	1h	2h	4h	8h	16h
57	524288	5,7	19	1min	2min	4min	8min	15min	30min	1h	2h	4h	8h	16h	32h
60	1048576	6,0	20	2min	4min	8min	15min	30min	1h	2h	4h	8h	16h	32h	64h

## \*Shutter Speed Steps

Shutter speed steps represent the clicks on your shutter speed dial IF your camera it is set to 1/3 stops (which is usually the default setting). So every click is a third stop. That makes using ND filters a breeze. Look up the optical density of your filter, "remove" the comma and you know by how much you have to correct the shutter speed in order to get the same exposure you would get without filter.



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1/8000sec	1/4000sec	1/2000sec	1/1000sec	1/500sec	1/250sec	1/125sec	1/60sec	1/30sec	1/15sec	1/8sec	1/4sec	0.5sec	1sec	2sec	4sec	8sec	15sec	30sec																	
1/6400	1/5000	1/3200	1/2500	1/1600	1/1250	1/800	1/640	1/400	1/320	1/200	1/160	1/100	1/80	1/50	1/40	1/25	1/20	1/13	1/10	1/6	1/5	0.3	0.4	0.6	0.8	1.3	1.6	2.5	3.2	5	6	10	13	20	25