DATA SHEET

SPUR

Speed **P**hotography
+
Ultrahigh **R**esolution

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Data Sheet of **SPUR SLD**

SPUR SLD is a so-called high speed developer. The most outstanding feature of high speed developers consists in their achieving at least box speed or even higher speeds with most films at normal contrast. Most developers have not got the ability to do this, so that from their use results a loss of essential details in the shadows when exposing for box speed.

High speed developers should not be confused with push developers. Pushing means overdeveloping for a high or very high contrast, whereby due to a steepening of the characteristic curve a virtual higher speed is created, which however lacks the details in the shadows.

The features of SLD are:

- **Great speed yield**
- **Relatively fine, sharply accentuated grain along with high sharpness**
- **High contrast of detail and rich tonal range**
- **SPUR SLD can be used for best results with high and highest speed, as well as with low and normal speed films.**

Information on processing can be found in the attached developing chart. Speed was determined according to the Zone System, so even the indications of speed surpassing box speed are real indications of speed at normal contrast rather than push speeds created by steepening gradation, ie development for high or very high contrast.

Indications of speed within the SLD developing chart falling below box speed suggest that the manufacturers' indications of speed are too optimistic with these films and do not comply with the Zone System or the ISO standard respectively.

For those films suited for pushing with SLD, we shall determine additional, push speeds, which will be published in a supplementary, push chart including an indication of the resulting contrast.

The developing parameters indicated are valid for the tank development of 35 mm and roll films and cannot be used for developing sheet films at steady movement in trays, machine or rotatory development. Here the indicated times should be reduced according to the circumstances. **The minimum amount of concentrate for one 35 mm film is 6 ml.** Smaller amounts may possibly be used, but have never been tested by us.

Developing Chart SPUR SLD

The values indicated in the chart are valid for a developing temperature of 20° C for negatives with a normal contrast. **Agitate permanently by tank inversion the first 30 seconds and once every minute thereafter.** At exposure you must comply with the ISO figures as indicated in this developing chart, and **NOT** the requirements of film manufacturers! If using a condenser developing time should be reduced by 10 to 15 %.

Manufacturer/Film	Film Speed ISO	Dilution	Developing Time (min)	Contrast
ADOX CHS 100 II	200/24°	1 + 20	13	Normal (N)
ADOX Silvermax	100/21°	1 + 20	11	Normal (N)
Agfaphoto APX 100 New	200/24°	1 + 24	8 - 8,5	Normal (N)
Agfaphoto APX 400 New	400/27°	1 + 14	15	Normal (N)
Bergger BRF 400 plus	400/27°	1 + 14	15	Normal (N)
Fomapan 100	125/22°	1 + 24	10	Normal (N)
Fomapan 200	125/22°	1 + 20	10,5	Normal (N)
Fomapan 400	200/24°	1 + 17	11	Normal (N)
Fuji Acros 100	100/21°	1 + 24	9 – 9,5	Normal (N)
Ilford Delta 100	160/23°	1 + 24	9,5	Normal (N)
Ilford Delta 400	400/27°	1 + 17	11	Normal (N)
Ilford Delta 3200	1000/31°	1 + 9	14	Normal (N)
Ilford Pan F +	40/17°	1 + 30	8	Normal (N)
Ilford FP4 +	200/24°	1 + 24	8,5	Normal (N)
Ilford HP5 +	500/28°	1 + 20	11	Normal (N)
Ilford SFX 200	160/23°	1 + 20	9	Normal (N)
Kentmere 100	200/24°	1 + 24	8 - 8,5	Normal (N)
Kentmere 400	400/27°	1 + 14	15	Normal (N)
Kodak Tmax 100	125/22°	1 + 20	11,5	Normal (N)
Kodak Tmax 400	400/27°	1 + 20	13,5	Normal (N)
Kodak Tri X 400	400/27°	1 + 14	11	Normal (N)
ORWO UN 54	200/24°	1 + 20	9,5	Normal (N)
Rollei RPX 25	50/18°	1 + 24	9	Normal (N)
Rollei RPX 100	200/24°	1 + 24	8,5	Normal (N)
Rollei RPX 400	500/28°	1 + 12	12	Normal (N)
Rollei Superpan 200	125/22°	1 + 20	8	Normal (N)
Rollei Retro 80 S	50/18°	1 + 24	9	Normal (N)
Rollei Retro 400 S	125/22°	1 + 20	8	Normal (N)
Rollei IR 400 S	125/22°	1 + 20	8	Normal (N)