

TECHNICAL INFORMATION

ORWO - Instruction no. 1183

ORWO black & white negative camera film UN 54

Application: ORWO Instruction no. 1183 is the base for a standard fine grain processing in order to exploit full sensitivity of ORWO b & w cine negative Film UN 54.

Procedure:

no.	process	bath	time (min)	temperature (°C)
1	developing	developer	3 ... 5	20,5
2	spray-washing		0,5 ... 1	20 ... 24
3	fixing	Calbe A 300 * or RF 90 *	5 ... 7	20 ... 22
4	spray-washing		5 ... 8	20 ... 24
5	wetting	Calbe F 905 * (1+200)	1 ... 2	20 ... 22
6	drying			max. 40

1 - 3 dark-room processing

Comment:

Depending on the processing equipment, deviations of time and temperature are practicable, if a comparable processing quality is guaranteed.

Lower temperatures for spray-washing are practicable too, if the washing time is extended (i.e. 30 ... 40 % at 12 ... 15°C).

Formulae:

Developer:

Water	750 ml
Pentasodiumtriphosphate *	2,00 g
Sodiumsulphite	100 g
Hydroquinone *	2,50 g
Phenidone *	0,30 g
Sodium tetraborate 10 hydrate	2,00 g
Potassiumbromide	0,39 g
...fill up water to	1 litre
pH - value	9,0 ± 0,1

* Explanations:

Pentasodiumtriphosphate	Anticalcium agent based on polyphosphate
Hydroquinone	Developing agent
Metol	Developing agent (monomethyle-p-aminophenol sulphate)
F 905	Calbe Wetting agent
A 300	Calbe Rapid fixing based on ammonium thiosulphate
RF 90	Calbe Rapid fixing based on ammonium thiosulphate

ORWO



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We reserve the right to change the ORWO-Instruction no. 2182 to improve the characteristics of film and perfect the safety of processing bathes.