

## **TECHNICAL INFORMATION**

## **ORWO - Instruction no. 1182**

ORWO black & white negative camera films ORWO black & white duplicating positive films ORWO black & white duplicating negative films

**Application:** ORWO negative black & white motion picture films and also both duplicating positive and duplicating negative films are to be developed according to ORWO Instruction no. 1182

Procedure:				
no.	process	bath	time (min)	temperature (°C)
1	developing	ORWO 17 or Kodak D 96	5 8	21 ± 1
2	spray-washing	-	½ 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 d	ark-room processing			

## Comment:

If you want to receive a very fine graininess we suggest the developer, mentioned down, but you have to expect a little bit less in sensitivity, too.

If you are depending to the real sensitivity and a normal fine graininess we suggest you to process according to ORWO Instruction no. 1183 with the phenidone-developer.

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).







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Developer:				
Water	750 ml			
Pentasodiumtriphospate *	2,00 g			
Metol *	1,50 g			
Sodium sulphite	75,00 g			
Hydroquinone *	1,50 g			
Sodium tetraborate 10 hydrate	4,50 g			
Potassium bromide	0,80 g			
fill up water to	1 litre			
pH - value	$9.1 \pm 0.1$			

\* 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

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