



DYEING OF POLYESTER

Dosable levelling and dispersing
agent with migration properties

SETAVIN MIG



ZSCHIMMER & SCHWARZ MOHSDORF GmbH & Co KG

Textile Auxiliaries Division

Benefits of **SETAVIN MIG**

- **dosable**
- **very good migration power**
- **levelling properties for polyester dyeings with disperse dyes**
- **dispersing properties for polyester dyeings with disperse dyes**
- **very low foaming**

Dispersing test with disperse dyes

Recipe: 0.5 g/l Foron Blue S-2RN
0.5 ml/l acetic acid 60%
x g/l levelling/dispersing agent
10 dH water hardness

Program: add dye and auxiliaries
heat up to 115 C for 30 min
cool down to 80 C
filtration through a blue ribbon filter



Without levelling agent

1 g/l SETAVIN MIG

Levelling test with disperse dyes

Recipe: 0.20 % Palanil Yellow 3 G
0.25 % Palanil Brillant Pink REL
0.06 % Foron Blue SE-2R

0.4 ml/l SETACID A 40
x g/l levelling/dispersing agent

Program: add auxiliaries
heat up to 135°C
add dyestuffs (fast)
run 130°C, 20 min
cool down to 80°C
rinsing

Inner layer

Middle layer

Outer layer



Without levelling agent

1 % SETAVIN MIG

Migration test with disperse dyes

Material:	undyed polyester	LR:	1 : 10, pH 5.5 (SETACID A40)
	dyed polyester: 0.30 % Palanil Yellow 5 G	Program:	heat up to 130°C (30 min)
	0.15 % Palanil Red 3 BF		
	0.10 % Palanil Dark Blue 3 RT		
	(same fabric weight)		



Migration test with disperse dyes

Material: undyed polyester
 yellow predyed polyester (1 % Palanil Yellow 5G)
 pink predyed polyester (1 % Palanil Red 3BF)
 blue predyed polyester (1 % Palanil Dark Blue 3RT)
 (same fabric weight)

LR: 1 : 10, pH 5.5 (SETACID A40)

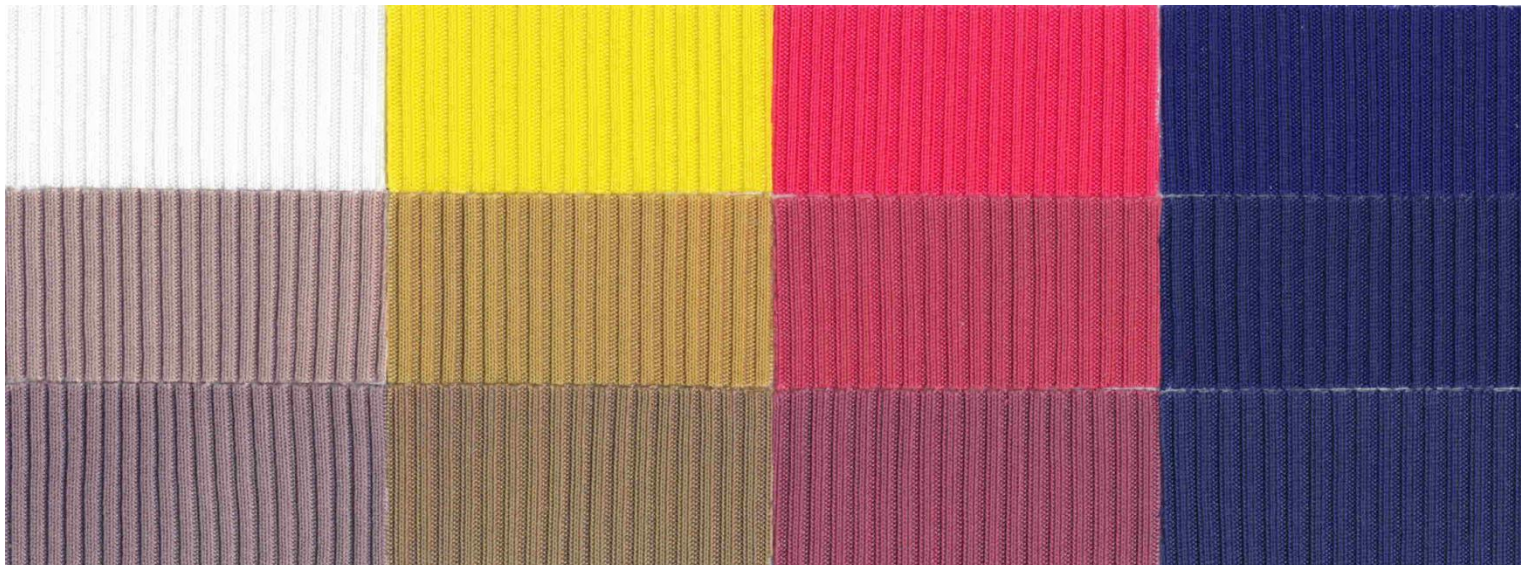
Program: heat up to 130°C (30 min)

migration to undyed PES

Pre-dyeing yellow

Pre-dyeing pink

Pre-dyeing blue



Test material

Without Levelling agent

1 % SETAVIN MIG

Foam behavior

- Method:** stamp method
 1) 30 times stamp
 2) 5 min stamp

Measurement of the foam height in the glass cylinder

	1.0 g/l SETAVIN MIG
30 times stamp	20 mm foam height
5 min stamp	30 mm foam height

