

NAIREST LAM EXTRA

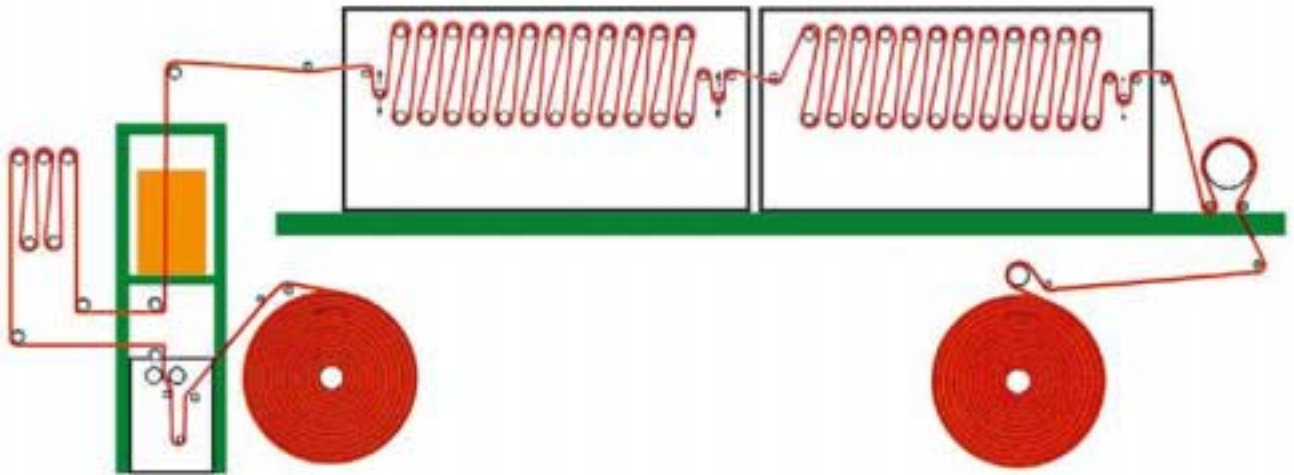


Nearpad Continuous Pigment Dyeing

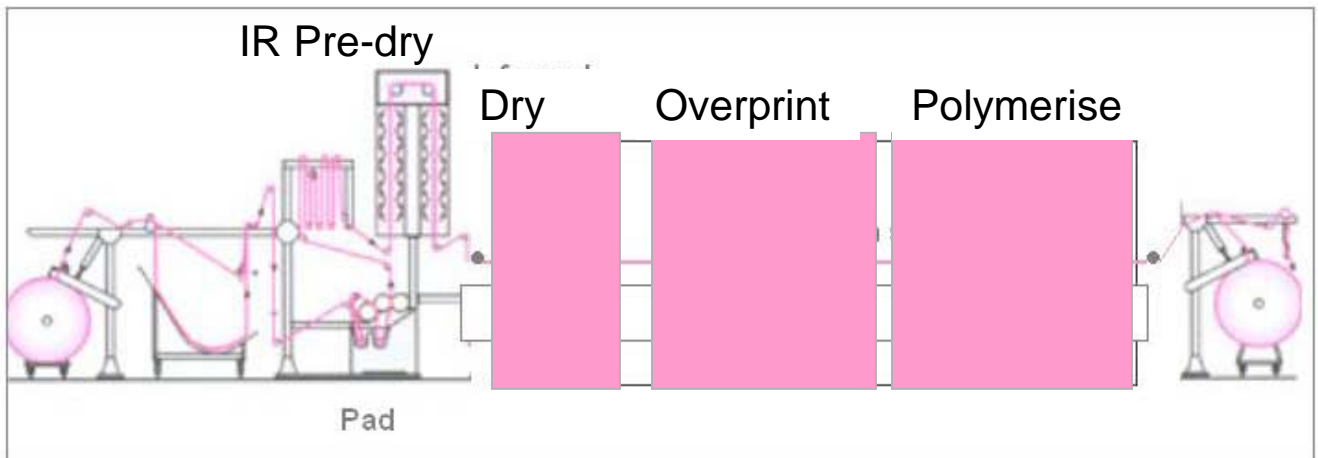
Nearpad Continuous Pigment Dyeing with NAIREST LAM EXTRA for cost-effective dyeing of various textile materials

- curtains
- bedsheeting
- tablecloths/napkins
- wallcoverings
- blankets
- camouflage (ground dyeing)
- grounds for overprinting
- apparel

Simple pad-dry-thermofix process



**PAD – INFRA-RED PRE-DRY – DRY
AND POLYMERISE – FINISH**



or can be overprinted by a process:

**PAD – I.R. PRE-DRY – DRY – OVERPRINT –
POLYMERISE - FINISH .**

Pad-dry-thermofix procedure for CO and PES/CO



Padding

NEARPAD pigments are mixed with water to obtain the required depth.

40 to 70 g/l NAIREST LAM Extra can be added to control migration, depending on material, depth of shade and drying conditions.

Drying

IR pre-drying is advisable to prevent migration. If Infra Red is not available, we recommend drying in the first 2 chambers of the stenter with reduced air circulation at max. 120°C.

Fixation

4–1 min at 160–190°C.

THEN SELL

Nearchimica have tried to simplify the process by combining all the auxiliaries needed for a successful continuous pigment dyeing into a single product – NAIREST LAM Extra.

Fabric speed - 30 to 60 metres/min. depending on drying capacity of the plant.

	Very pale shades	Medium shades	Dark shades
	0.5 – 1 g/l pigment	2 – 5 g/l pigment	6 – 10 g/l pigment
NAIREST LAM EXTRA	50 g/l	60 g/l	70 g/l
NAIREST LT 21	----	5 g/l	10 g/l

Experience shows that for dyeings in very pale shades

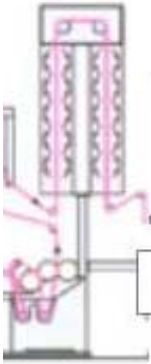
0,5-1 g/l of Nearpad pigments

it is possible to dry and polymerise without the use of an infra-red pre-drier.

Practical experience

2 fields
IR 800

Fabric example:
100% cotton – 110 g/m²



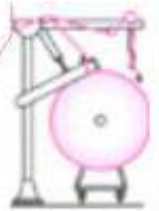
Dry on 7 chamber stenter

90°-90°-100°-100°-110°-120°-130°C

Pad

Thermofix on Hot flue

2 chamber Monforts Thermex at 160° C



Machine speed 65 m/min.

Kusters mangle pressure – 3 bar

Recipe: 6 g/l pigment,
60 g/l Nairest LAM Extra,
5 g/l Nairest LT21

Properties and advantages

- **Very soft handle, the fabric feels natural.**
- **NAIREST LAM Extra ensures excellent penetration and levelling on critical substrates (e.g. linen).**
- **Very economical dyeing process; no steamer or washing machine required.**
- **Reproducibility is excellent.**
- **No two-sidedness.**
- **Shades can be matched in minutes, no batching or steaming time.**
- **Dyeing liquors easy to prepare and can be re-used, economical and environmental advantage.**
- **Pigment selection gives high light fastness in the palest shades.**

Less migration to stenter pins and clips



A major practical advantage of **NAIREST LAM EXTRA** is less migration towards the stenter pins or clips, and therefore less wastage because of darker selvedges

Examples produced by a customer in Portugal with only a stenter.



Fastness

The process may be further streamlined, darker shades produced and fastness of dyeings increased, by combining resin finishing with the dyeing recipe.

Recipe 1 Recipe 2

Nairest LAM EXTRA	150 g/l	200g/l
Nofelding LF	20	40
Nofelding MPH	-	40
Lubriful LV	-	40
Nearfinish MEK	-	20
Nearfinish MNL	-	20
Katalin CM	-	20
Water to make up to	-----1000-----	

Nearstone Red CBF 30 g/l 30 g/l

Pad application - pick-up approx. 75%

Drying and polymerisation -160°C for 3 min.

Recipe 1

Wash
fastness
at 60°C
Recipe 1
= 3/4
at 90°C
Recipe 1
= 3



Recipe 2

Wash
fastness
at 60°C
Recipe 2
= 4
at 90°C
Recipe 2
= 3/4



Recipe 1



Rubbing fastness

Dry	Wet
3/4	3-3/4

Recipe 2



Rubbing fastness

Dry	Wet
3-3/4	3/4