

DyStar's Newest.. Preparation & Whitening Systems

Innovative systems for preparing cellulosic fibers for "First Right Time" dyeing



Sera C System

DyStar's newest innovative systems for scouring, and bleaching of cellulosic fibers. This improved system offers numerous advantages to the customer in terms of cost savings, reproducibility of results and overall safety of processing.

Benefits & Features:

Suitable for - Pre-bleaching, pre-scouring, and full whites

Separate surfactant/stabilizer system -Allows for adjustment to varying bleach conditions and quality of fabrics

Repeatability - Robust system insures consistent bleaching, first quality dyeings

Levelness - Provides excellent wax and oil removal, uniform absorbency

Low foaming - No defoamer required for most equipment

Water consumption - Sera Con C-AL facilitates the washing of the fabric allowing a minimal number of rinses without a negative effect on dyeing, up to 75% savings

Shorter cycle time - The rapid bleach procedure typically saves 30-60 mins over conventional pre-bleaching. No need to drop neutralization bath, Sera Con C-AL and Sera Zyme C-PF have no adverse effect on dyeing

Sera Wash C-LR - Highly effective detergent

Provides thorough wetting immediately at the start of the cycle, low foaming excellent detergency and rewetting properties, emulsifies oils, waxes, and grease

Sera Quest C-LR - Effective versatile peroxide stabilizer

Excellent metal control during peroxide bleaching, effective against all harmful catalytic metals, highly concentrated

Sera Con C-LR - Multi-functional neutralizing and wash agent

Prevents yellowing due to formation of acetate salts during neutralization, disperses metallic salts, core neutralization of alkali, no fiber damage, no machine corrosion

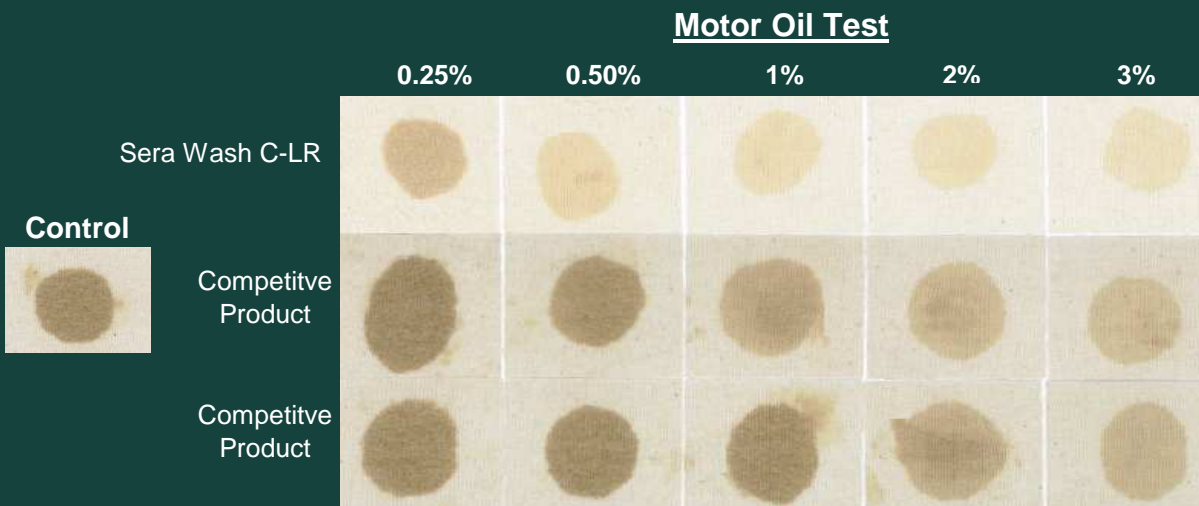
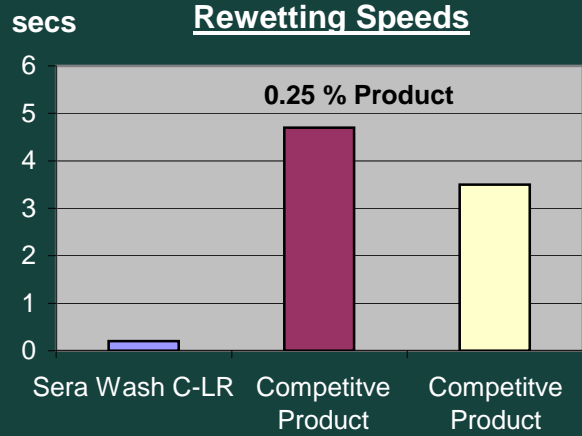
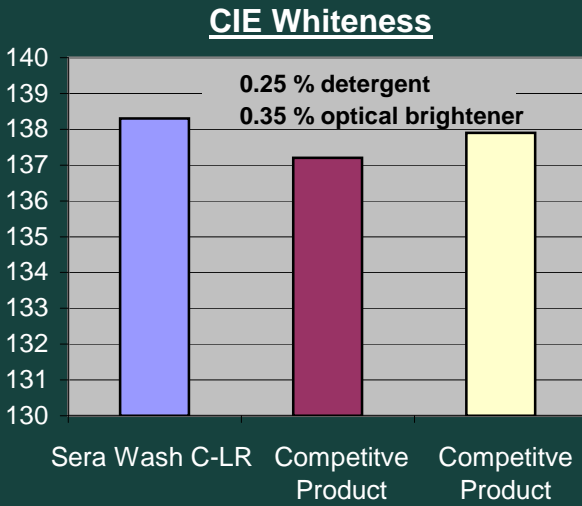
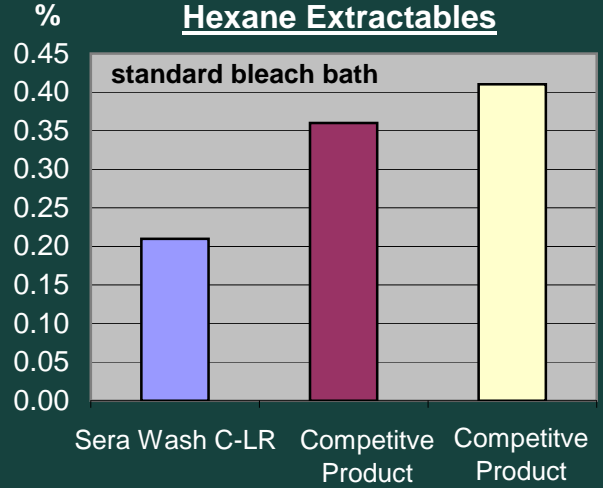
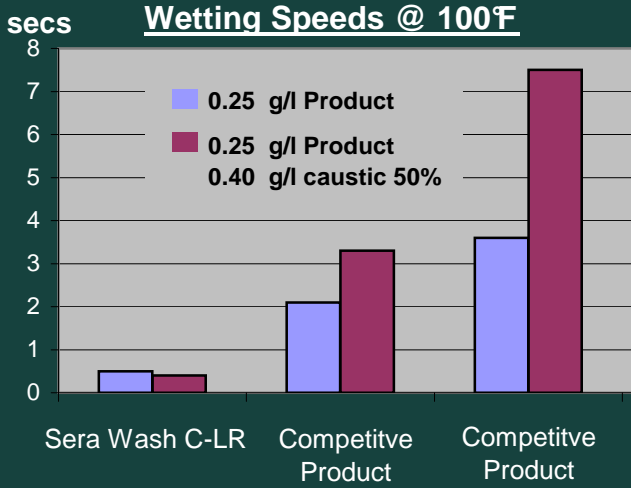
Sera Zyme C-LR - Catalase enzyme for the elimination of residual peroxide after bleaching

Complete removal of residual hydrogen peroxide, fast reacting, biodegraded after neutralization of peroxide, 1 prt enzyme decomposes more than 5 million prts of peroxide per minute, broad spectrum of pH and temperature which allows for higher washing and neutralization

Sera White C-EBN - Bluish cotton optical brightener

High affinity blue optical for cellulosic fibers, tolerant to lower pH with yellowing, highly concentrated

Sera Wash C-LR



Oil Emulsification



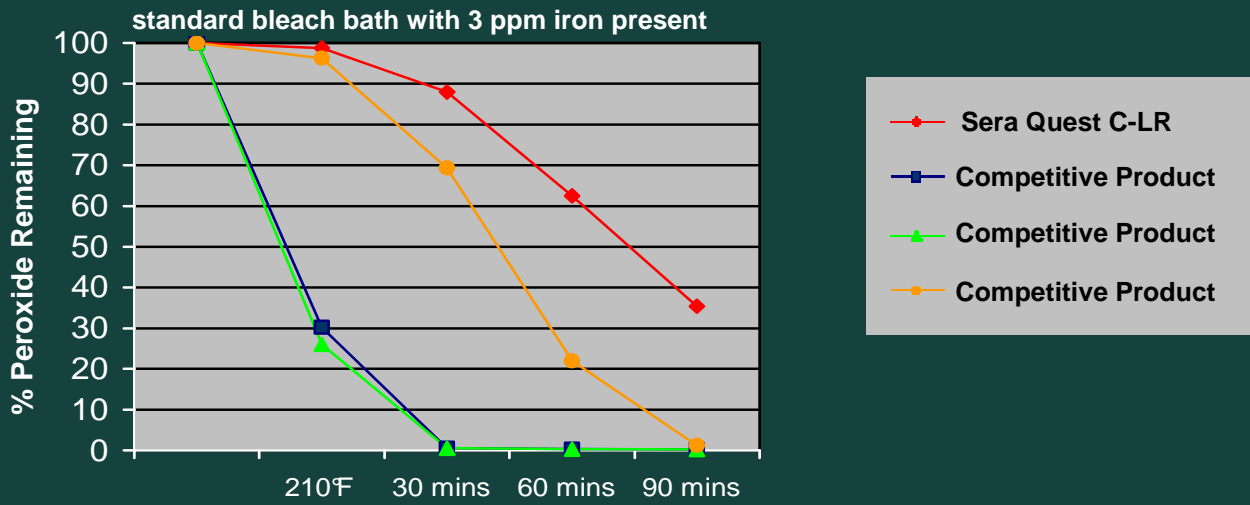
without detergent



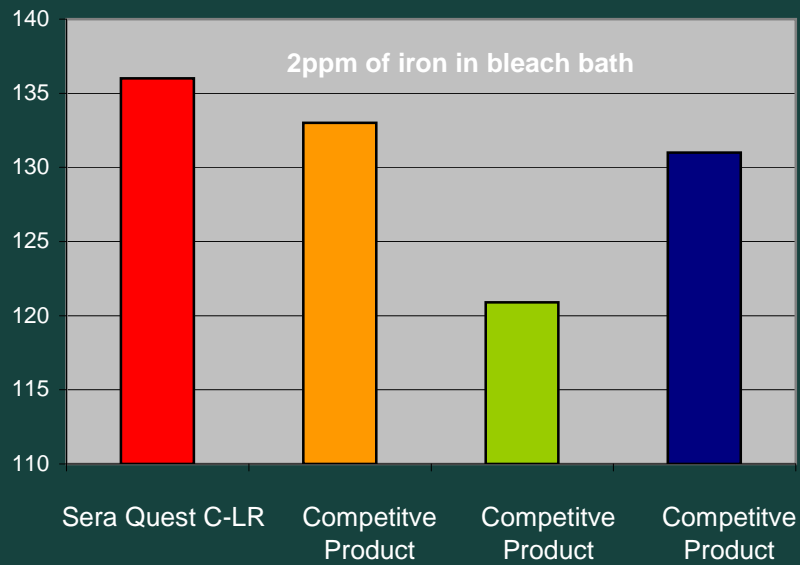
with Sera Wash C-LR

Sera Quest C-LR

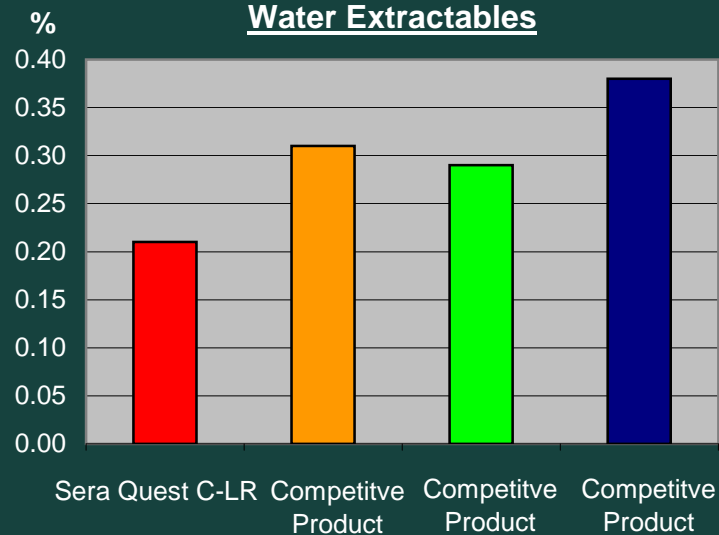
Peroxide Stability Test



CIE Whiteness

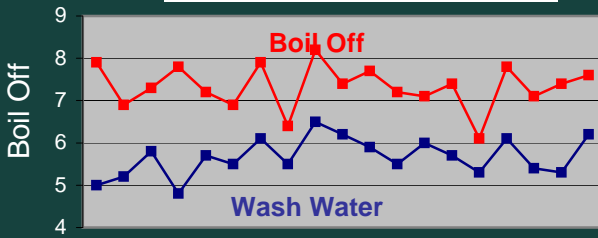


Water Extractables

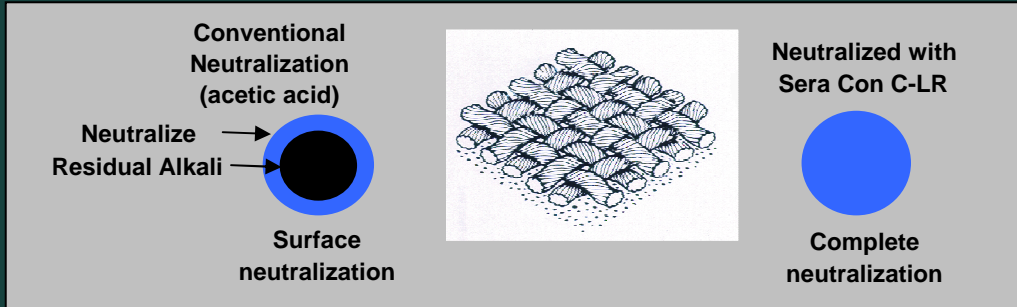
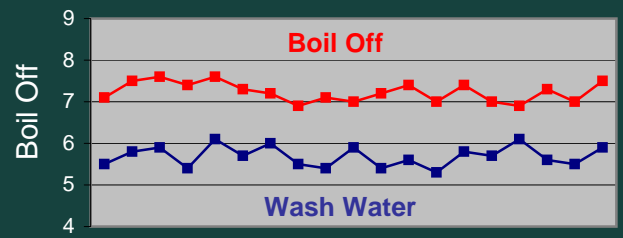


Sera Con C-LR

Acetic Acid Neutralization

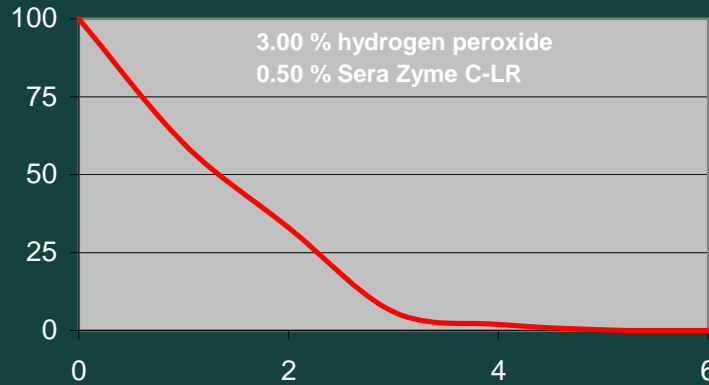


Sera Con C-LR Neutralization

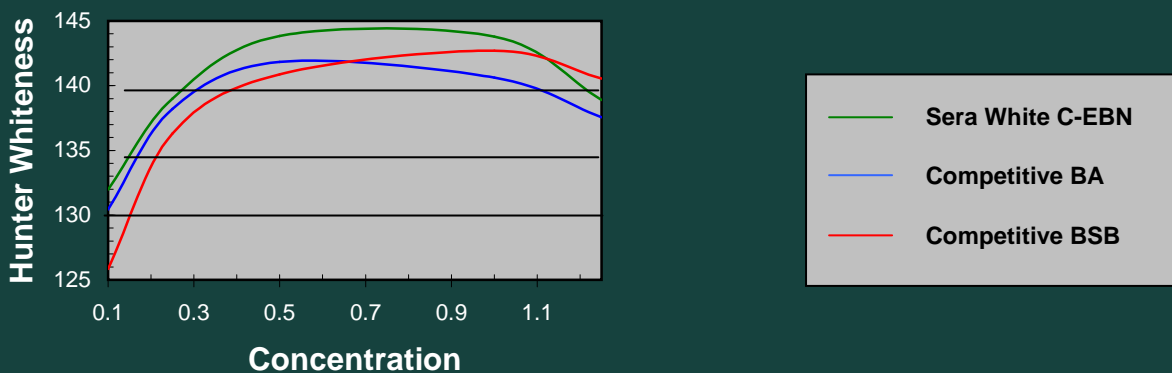


Sera Zyme C-LR

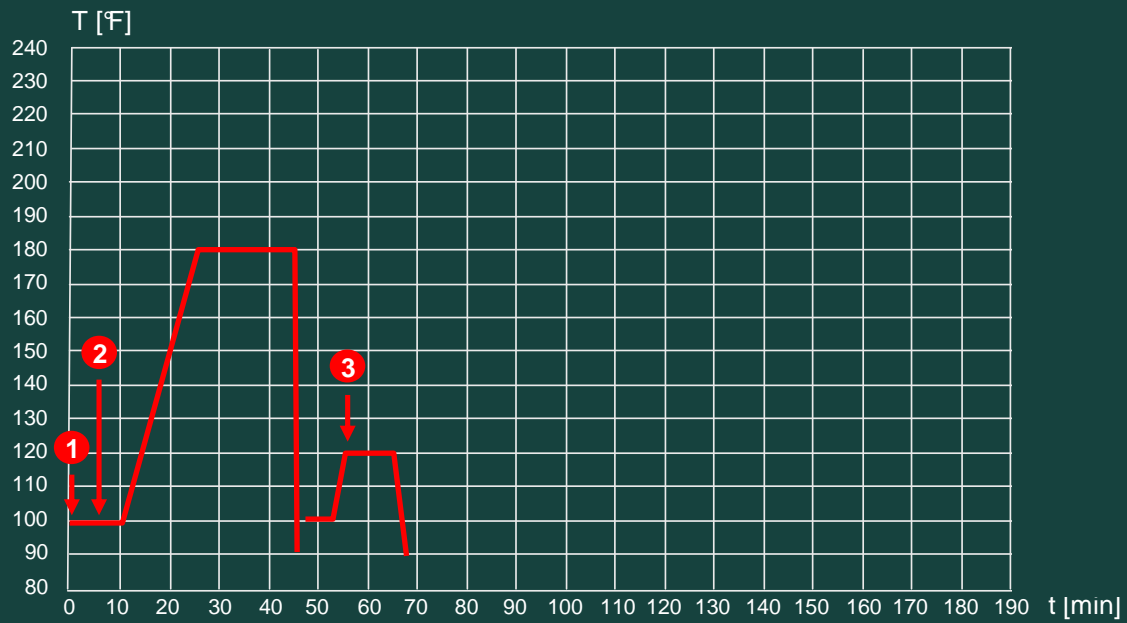
Peroxide Destruction by Sera Zyme C-LR



Sera White C-EBN



Pre-scour Procedure



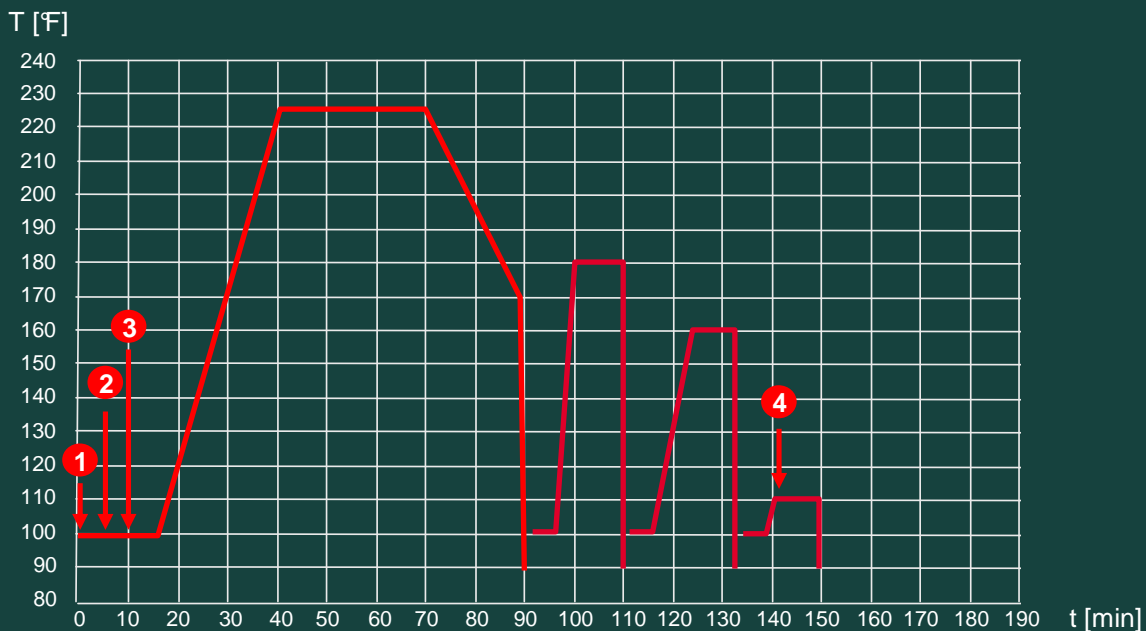
1 0.25 % Sera Wash C-LR

2 3.00 % alkali

3 Sera Con C-LR
pH 6.0 - 6.5

Note: Check pH. If pH is ok, drain,
fill and dye as recommended.

Full White Bleach Procedure



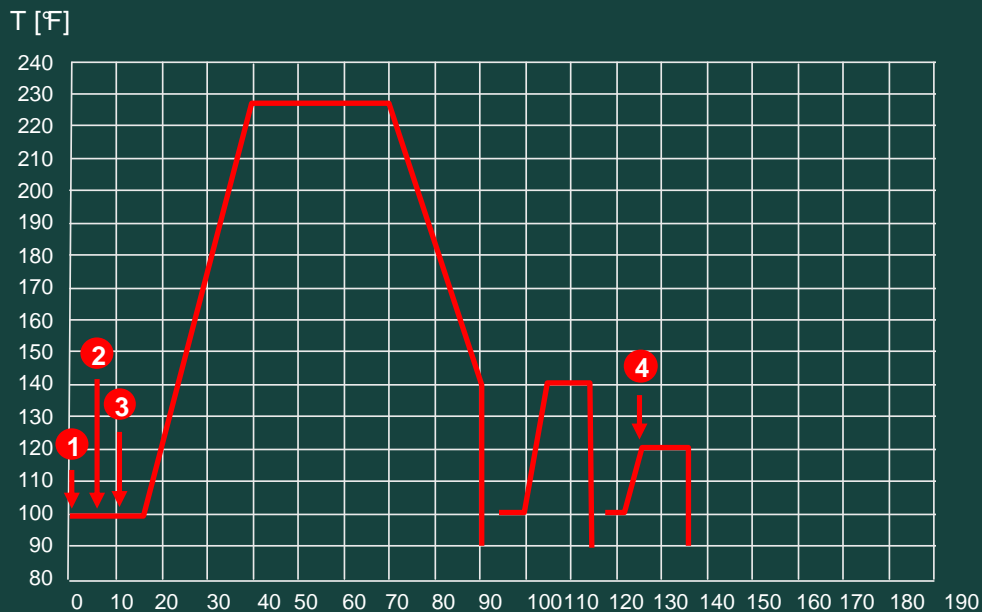
1 0.25 % Sera Wash C-LR
0.10 % Sera Quest C-LR

2 3.00 % caustic soda liq 50%

3 4.00 - 6.00 % hydrogen peroxide 50%
0.30 - 0.65 % Sera White C-EBN

4 Sera Con C-LR (typically 0.60%)
pH 6.0 - 6.5

Pre-bleach - Conventional Procedure

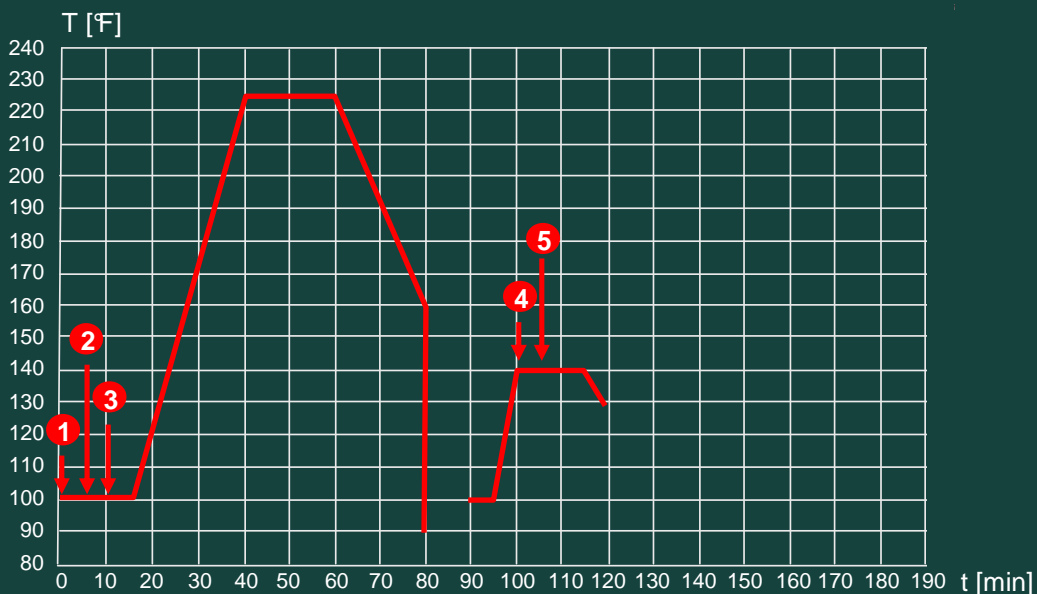


- 1 0.25 % Sera Wash C-LR
0.10 % Sera Quest C-LR
- 2 3.00 % caustic soda liq 50%
- 3 3.00 - 6.00 % hydrogen peroxide 50%

- 4 Sera Con C-LR (typically 0.50%)
pH 6.0 - 6.5

Note: Check pH and peroxide. If pH and peroxide levels are ok, drain, fill and dye as recommended.

Pre-bleach - Rapid Procedure



- 1 0.25 % Sera Wash C-LR
0.10 % Sera Quest C-LR
- 2 1.00 - 2.00 % caustic soda liq 50%
- 3 3.00 - 6.00 % hydrogen peroxide 50%

- 4 Sera Con C-LR (typically 0.50%)
pH 6.0 - 6.5
- 5 0.40 - 0.60 % Sera Zyme C-LR

Note: Check pH and peroxide levels, if ok proceed with dyeing procedure (drop/fill if needed to adjust for liquor ratio or dyeing temperature)