

FULL PACKAGE FOR SEAMLESS GARMENT

LUBRICATION - DYEING - FINISHING - SPECIAL EFFECTS



AVCOchem®

www.avcochem.com.vn

LUBRICATION KNITTING OILS

KLUBER - MADOL OILs

Advantages

- ✔ Lubrication and wear protection
- ✔ Compatibility of materials (synthetic fibers) sealing materials, plastics, metal parts)
- ✔ Scourability ensure even and deep dyeing
- ✔ Reliable wetting of the friction points
- ✔ Keep needle grooves clean
- ✔ Extend the needle life
- ✔ Good oxidation stability
- ✔ Keeping maintenance costs to a minimum.
- ✔ Excellent with Santoni knitting machines



Properties and Availability

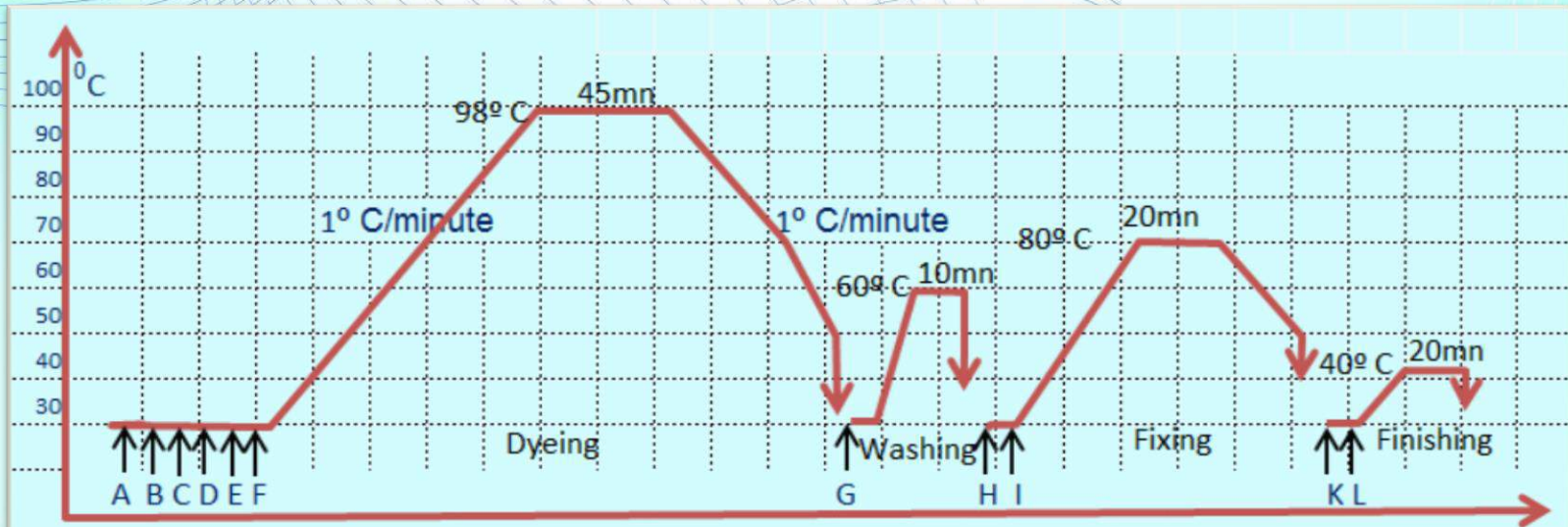
- ✔ Clear transparent
- ✔ Low viscose liquid
- ✔ Available in 1000l; 200; 30l and 4l

PRODUCT RECOMMENDATIONS

AUXILIARIES

Pretreatment	Dyeing	Finishing	Special Treatment
1. Oil Removal: Avco-Biosol 1040	4. Acid Buffer: Avco-Cid LPH CONC	9. Soft & smooth silicone: AVCO-Elastogum RD68	13. Anti-yellowing: AVCO-Gard AY
2. Anti crease: Avco-Tex A25-I	5. Leveling: Avco-Lon NAL 03	10. Hydrophilic silicone: AVCO-Elasil JWH	14. Anti static: AVCO-Stat AHM
3. Antifoam: Avco-Antifoam H50	6. Fixing agent: Avco-Fix N99	11. Hydrophilic softener: AVCO-Naf NY 200	15. Wicking agent: AVCO-Wick DMM
	7. Washing: Avco-Ron RWA	12. Water repellent finish: AVCO-Phob 6410	
	8. Optical Brightener: Synto-Lux CLB NEW		

PROCESS CHART



Apply chemicals		
Position	Name	Recipe
A	AVCO-BIOSOL 1040	0.5-4.0 g/l
B	AVCO-TEX A25 I	0.5-2.0 g/l
C	AVCO-ANTIFOAM H50	0.2-1.0 g/l
D	AVCO-LON NAL 03	0.5-3.0 g/l
E	AVCO-CID LPH CONC	0.5-2.0 g/l
F	Acid Dyestuff	X%

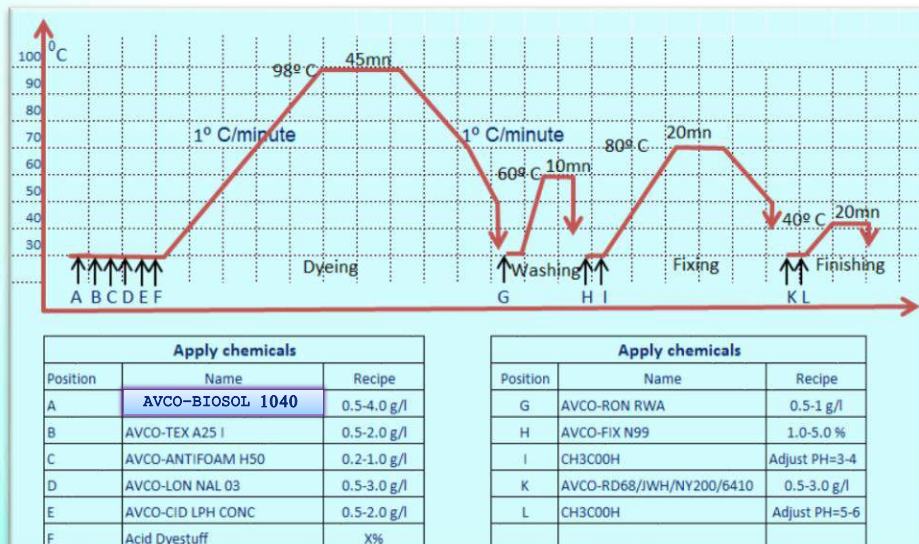
Apply chemicals		
Position	Name	Recipe
G	AVCO-RON RWA	0.5-1 g/l
H	AVCO-FIX N99	1.0-5.0 %
I	CH3C00H	Adjust PH=3-4
K	AVCO-RD68/JWH/NY200/6410	0.5-3.0 g/l
L	CH3C00H	Adjust PH=5-6

LOW FOAMING OIL REMOVAL

AVCO-BIOSOL 1040

Advantages

- ✓ Excellent dispersion and emulsion properties
- ✓ Oil removing effect, can be used in a wide range of pH
- ✓ Nonionic, low foaming surfactant, suitable for high speed machine
- ✓ Used in neutral medium, mild alkali or mild acid solutions
- ✓ Environment friendly, regarded as a "GREEN" product



Properties

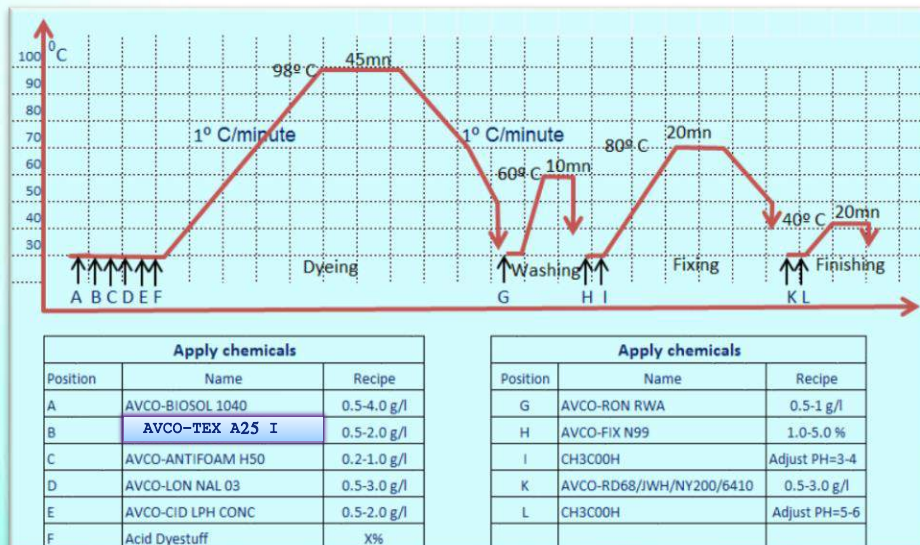
- ✓ Blends of surfactants
- ✓ Clear, yellow liquid
- ✓ Non-ionic
- ✓ Miscible with water at any ratio
- ✓ Compatible with hard water, mild acids, mild alkalis

ANTI-CREASE AGENT FOR SYNTHETICS FABRICS

AVCO-TEX A25-I

Advantages

- ✓ Overcome the problems of folds and creases marks
- ✓ Recommended for dyeing in low ratio
- ✓ Recommended for processing elastane (Lycra), microfibers
- ✓ Improves absorbency
- ✓ Suitable for a wide pH range
- ✓ Can be used with hard water.



Properties

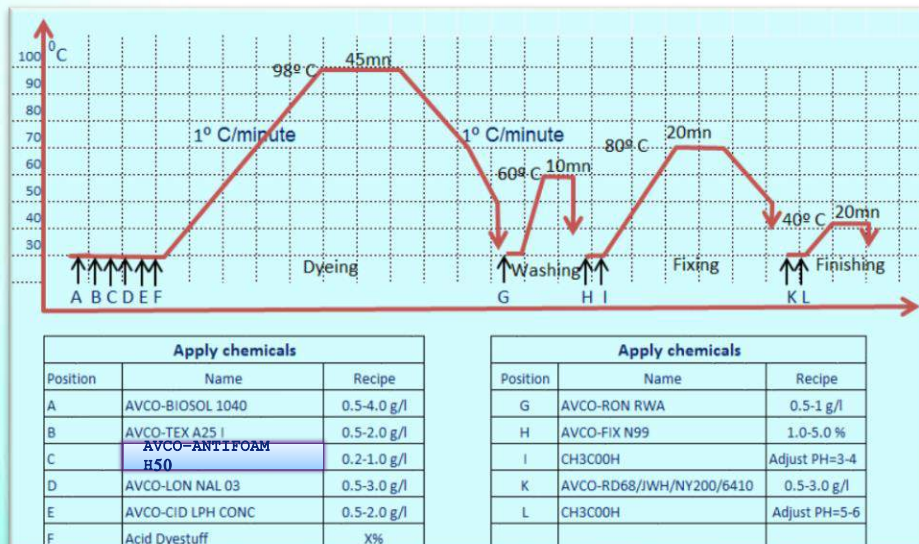
- ✓ Polyamide derivative in aqueous solution
- ✓ Clear, colorless to slight yellowish liquid
- ✓ Non-ionic
- ✓ Miscible with water at any ratio
- ✓ Compatible with all types of chemicals normally used in preparation and dyeing of synthetic fabrics

SILICONE ANTI-FOAMING AND DE-FOAMING AGENT

AVCO-ANTIFOAM H50

Advantages

- ✔ Used in most aqueous textile operations
- ✔ Very efficient and economic anti-foam
- ✔ Good stability to high temperatures
- ✔ Good compatibility with various chemicals with a long-lasting effect
- ✔ Can be dosed very easily into the aqueous phase
- ✔ Spreading in the aqueous medium is very quick
- ✔ Anti-foaming effect shows up immediately



Properties

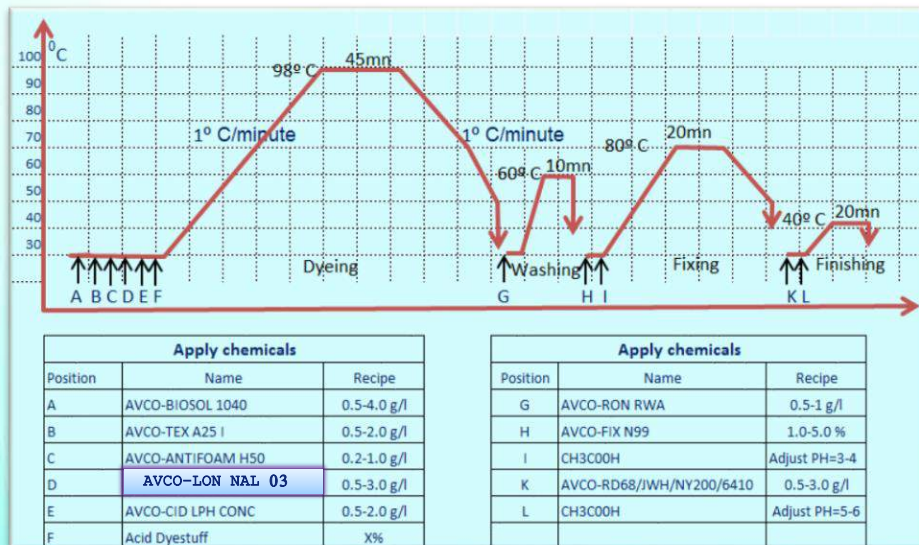
- ✔ Oil / water emulsion of silicone polymer
- ✔ Milky white low viscosity liquid
- ✔ Mainly Non-ionic
- ✔ Dispersible in water
- ✔ Stable in aqueous processes, not stable in extreme PH range

LEVELING AGENT

AVCO-LON NAL 03

Advantages

- ✓ Moderate affinity to the cationic dye-sites on the polyamide fibres and to the anionic anchors on the acid dyestuff molecules.
- ✓ Excellent migrating capacity and good dye yield
- ✓ Recommend for dyeing of fibres which have severe affinity differences
- ✓ Suitable for dyeing acid dyes, metal complex dyes
- ✓ Suitable for dyeing at high temperature
- ✓ Not impair the fastness



Properties

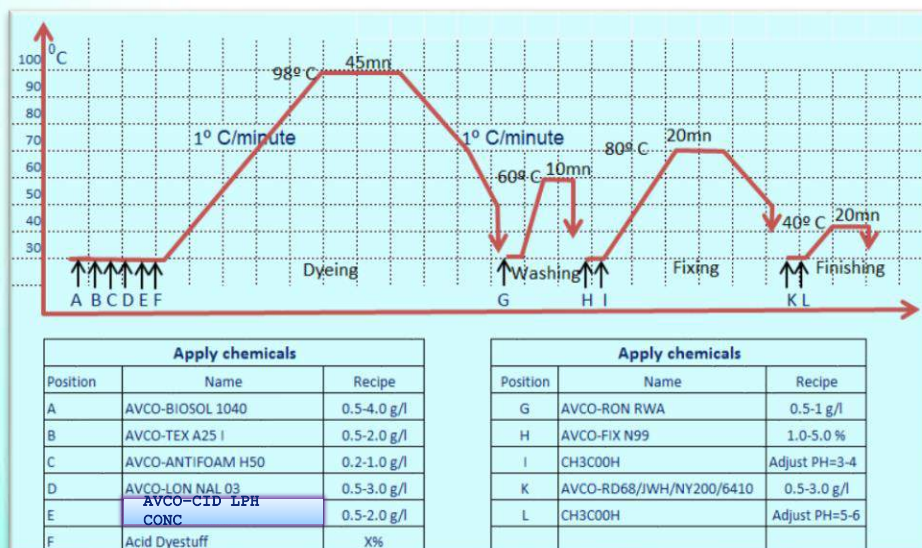
- ✓ Aqueous compound of poly-ethoxylated fatty amines and sulphonated surfactants
- ✓ Slightly brown liquid
- ✓ Non-ionic/anionic
- ✓ Soluble in water at any ratios
- ✓ Stability in normal conditions

ACID DONOR AND PH REGULATOR

AVCO-CID LPH CONC

Advantages

- ✔ Evenly and slowly hydrolyzes in hot aqueous solution to produce an organic acid
- ✔ Produced is lowering the PH of the solution down to 4.0-5.5
- ✔ Dissociation is slow in cold solutions and increases when the temperature is raised
- ✔ Ensures more level dyeing
- ✔ Not influence to fastness properties



Properties

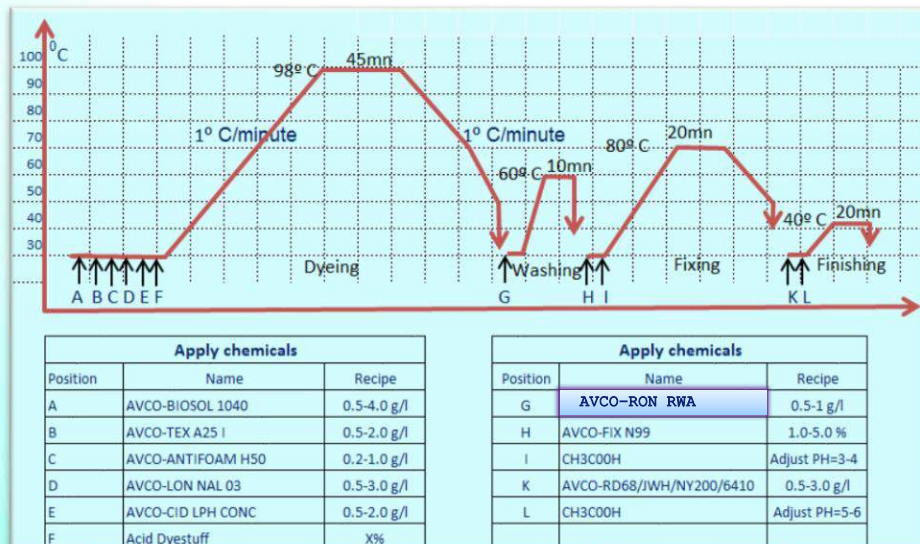
- ✔ Blend of organic esters
- ✔ Yellowish clear liquid
- ✔ Miscible with cold water
- ✔ Non-ionic
- ✔ Not compatible with strong alkalis

WASHING-OFF AGENT

AVCO-RON RWA

Advantages

- ✓ Improve rubbing fastness and wash fastness
- ✓ Excellent washing-off properties
- ✓ Anti-back staining
- ✓ Sequestering and dispersing calcium and magnesium
- ✓ No influence on dyestuff containing meta complex
- ✓ Non-foaming at all, can use in all high speed machine



Properties

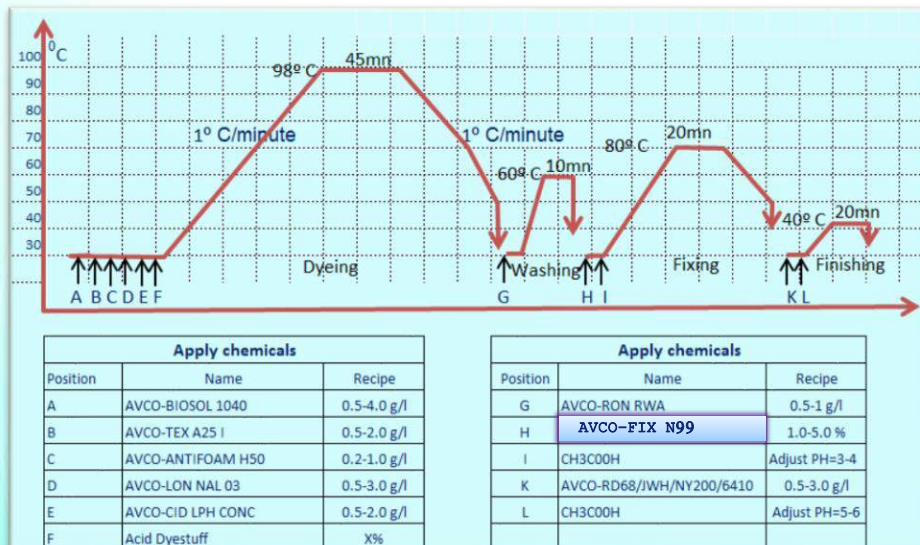
- ✓ Organic polymers in aqueous solution
- ✓ Colorless to pale yellow liquid
- ✓ Non-ionic
- ✓ Soluble in water at any ratios
- ✓ Compatible with hard water, alkalis and mild acids

FIXING AGENT

AVCO-FIX N99

Advantages

- ✓ Improve wash-fastness of polyamide fibres dyed with acid dyestuffs
- ✓ As a resist agent in dyeing polyamide blends
- ✓ Minimum effect on shade and high fastness of dyed fibres
- ✓ No effect on treated fabrics handle
- ✓ Suitable for application in high-speed machines



Properties

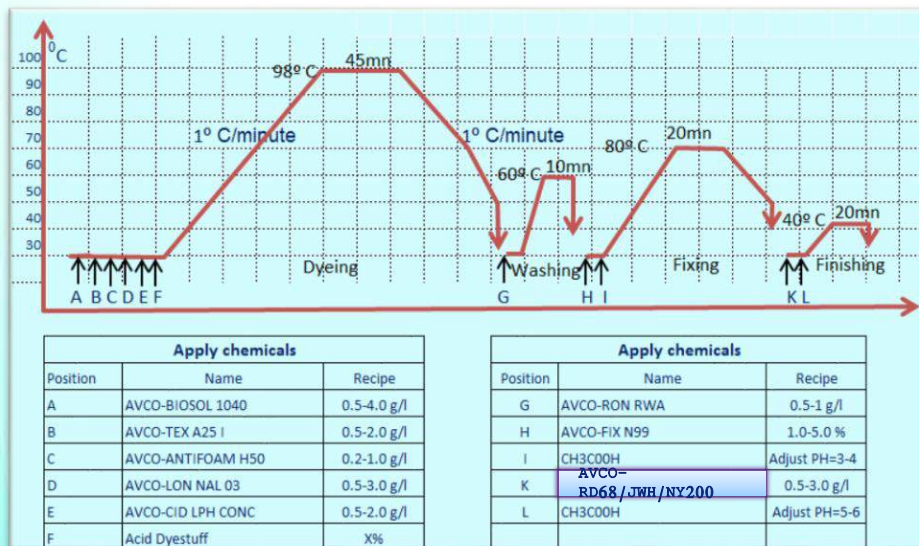
- ✓ Aqueous solution of synthetic resin
- ✓ Brown clear liquid
- ✓ Anionic
- ✓ Miscible with water at any ratios
- ✓ Compatible with no-ionic and anionic
- ✓ Incompatible with cation, acids and alkalis

ELASTOMERIC FINISHING

AVCO-ELASTOGUM RD 68

Advantages

- ✔ Connecting three-dimensional into textile fabrics
- ✔ Designed to provide high grade softness
- ✔ Create stretchy finish and bounciness to textile fabrics.
- ✔ High elastomeric property finishing of textile
- ✔ Lowers pilling and abrasion of textile fabrics
- ✔ Improves the handle feel for "wash and wear" resins finishing
- ✔ Improves sew-ability of the treated fabrics



Properties

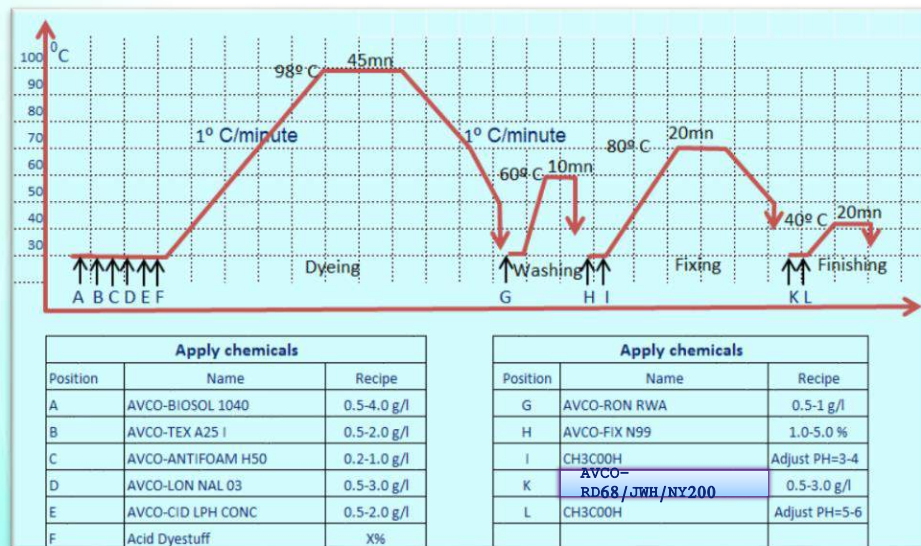
- ✔ Aqueous emulsion of modified polymer
- ✔ Opaque colorless liquid
- ✔ Non-ionic, becomes cationic in acidic medium
- ✔ Miscible with water at any ratios
- ✔ Incompatible with anion product

HYDROPHILIC SILICONE

AVCO-ELASIL JWH NY200

Advantages

- ✔ Giving special smooth and soft handle
- ✔ Good hydrophilic and soil release properties
- ✔ Non yellowing on white yarns and fabrics
- ✔ Improves dimensional stability of knits
- ✔ Sew-ability of treated fabrics, wash and wear proper
- ✔ Used for all types of fibres
- ✔ Can be used together with nonionic and cationic hydrophilic softeners



Properties

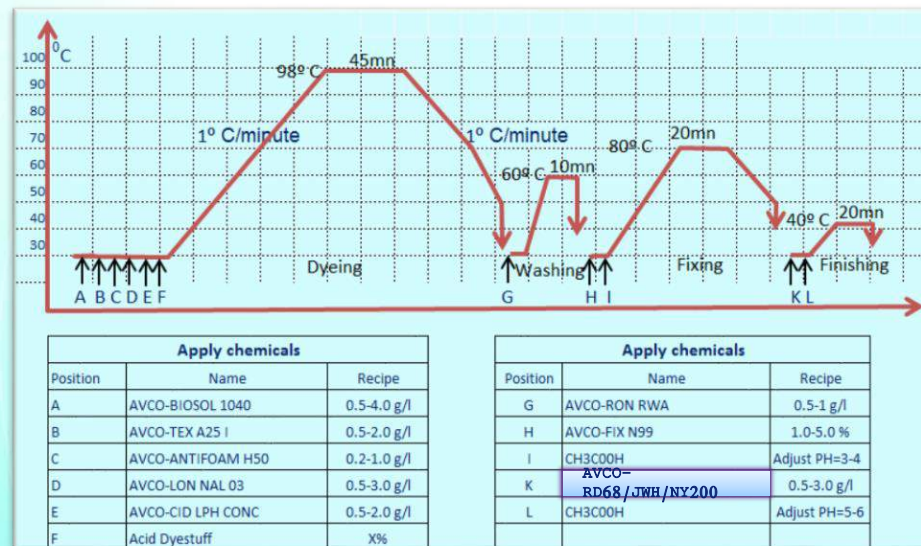
- ✔ Micro-emulsion of silicone polymers
- ✔ Almost clear, colorless liquid
- ✔ Slightly cation
- ✔ Miscible with water at any ratios
- ✔ Compatible with non-ionic, cationic product

COMFORT FINISHING

AVCO-NAF NY 200

Advantages

- ✓ Durable comfort-finishing, soil-release
- ✓ Antistatic agent for polyester, nylon and its blends
- ✓ Excellent hydrophilic, wicking properties
- ✓ Render polyester, nylon fabric fluffy and soft hand-feel
- ✓ The treated fabrics will become comfortable to wear
- ✓ No effect on the whiteness and color shade of the treated fabrics.



Properties

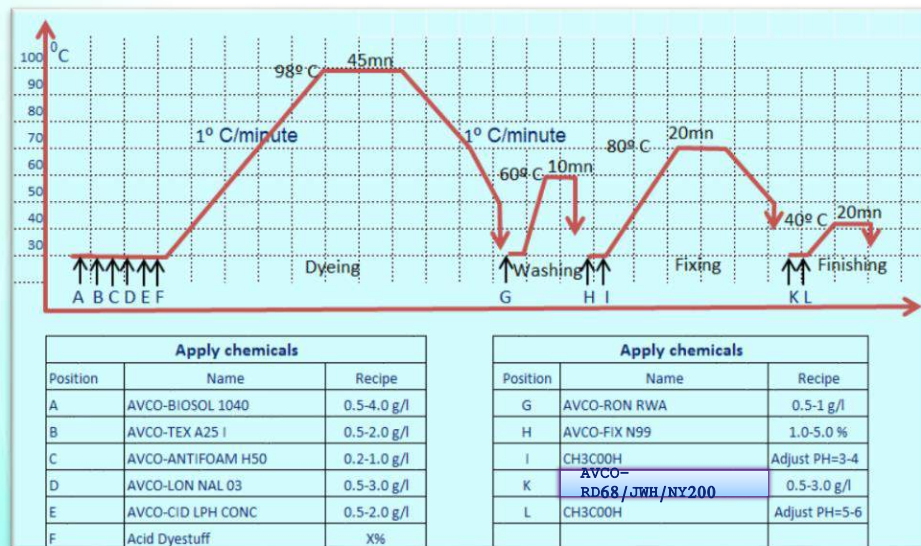
- ✓ Binary polymer of polyester with poly-ether
- ✓ Yellow brown liquid
- ✓ Non-ionic
- ✓ Compatible with most other agent used in dyeing and finishing

WATER REPELLENT FINISHING

AVCO-PHOB 6410

Advantages

- ✓ Free PFOA and excellent water and oil repellent
- ✓ Good dry soil removal
- ✓ Good wash and dry-cleaning fastness
- ✓ Good breathability
- ✓ No catalyst addition is needed



Properties

- ✓ Aqueous emulsion of fluorocarbon Co-polymer (C6)
- ✓ White emulsion
- ✓ Amphoteric
- ✓ Miscible with water at any ratio
- ✓ Can be used in neutral and acidic finishing bath

PHENOLIC AND NITROGEN OXIDE YELLOWING INHIBITOR

AVCO-GARD AY

Advantages

- ✔ Prevent phenolic and nitrogen oxide yellowing during handling and storage of the finished articles
- ✔ Replaces traditional acidic after treatment processes
- ✔ Has hydrophilic properties
- ✔ Suitable for application by exhaust and by continuous processes
- ✔ Can be applied with non-ionic and anionic products
- ✔ Can be applied in one-step dyeing and finishing process of polyamide

Properties

- ✔ Aqueous preparation of alkyl sulfonate
- ✔ Clear yellow, slightly viscosity
- ✔ Anionic
- ✔ Soluble in water
- ✔ Can be applied with non-ionic and anionic product

ANTI-STATIC AGENT

AVCO-STAT AHM

Advantages

- ✔ Excellent anti-static
- ✔ Wash resistant anti-static finish without hot curing.
- ✔ Not impair the softness and smoothness of treated fibers.
- ✔ Suitable for co-application with hydrophilic finishing agents.
- ✔ Compatible with mild acids.
- ✔ Can be applied by padding, exhaust and dipping processes.

Properties

- ✔ Aqueous compound of hydrophilic synthetic polymers
- ✔ Light yellowish, clear, slightly viscous liquid
- ✔ Non-ionic
- ✔ Miscible with water at any ratios
- ✔ Compatibility with anion product
- ✔ Can used together with non-anion, cation

PU - HYDROPHILIC AND WICKING

AVCO-WICK DMM

Advantages

- ✔ Permanent hydrophilic properties to synthetic fabrics
- ✔ The finish is resistant to mild washing
- ✔ Impart wear comfort and quick dry properties
- ✔ Imparts typical soft handle to the treated fabrics
- ✔ Non-Yellowing product, the finish can be over dyed easily
- ✔ Imparts anti-static properties to the treated fabrics
- ✔ Enables easy and smooth handling of fabrics during making up and sewing processes

Properties and Availability

- ✔ Aqueous dispersion of hydrophilic polyurethane
- ✔ Colorless to light yellowish, clear to slightly turbid liquid
- ✔ Non-ionic
- ✔ Soluble in water at any ratios
- ✔ Compatibility with anion product
- ✔ Can used together with non-anion, cation

OPTICAL BRIGHTENING

AVCO-LUX CLB

Advantages

- ✔ Have reddish to bluish shade
- ✔ High affinity towards polyamide fibers
- ✔ Stability in most bleaching bath
- ✔ Very good fastness properties
- ✔ Good fastness to chlorinated water

Properties and Availability

- ✔ Stilbene derivative in aqueous solution
- ✔ Clear, dark blue liquid with fluorescence hue
- ✔ Anionic
- ✔ Soluble in water at any ratios
- ✔ Not stable to hard water and strong acid medium
- ✔ Not compatible with cationic, heavy metal and strong acids

SPECIAL EFFECTS

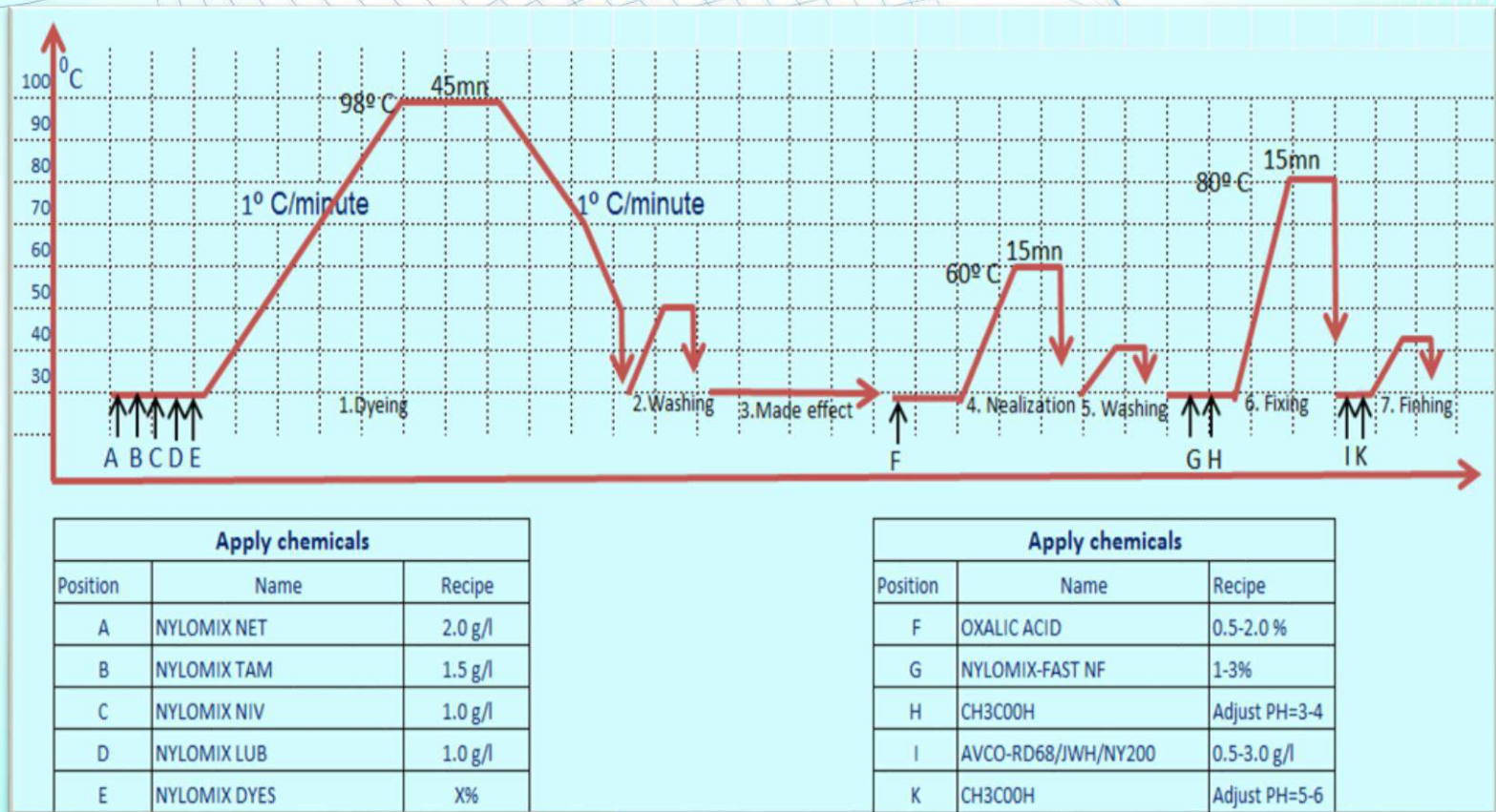
NYLOMIX DYES FOR WASH-OUT EFFECTS

DESCRIPTION	DEMONSTRATION
<p>We offer the full range of dischargable dyestuff on nylon material with our owned brand name Nylonmixaaa</p>	
<p>Full range of shades</p> <p>High fastnesses</p> <p>Complied to most of sustainability requirements</p>	
<p>Complete dyes and chemicals package to produce different wash-out effects</p>	

NYLOMIX DYEING AND SPECIAL EFFECTS

WASH-OUT EFFECTS

FLOW CHART



SPECIAL EFFECTS

WASH-OUT EFFECTS

OPERATORS' SKILL MATTERS

- ✔ Choose Sponge/balls with good absorbency
- ✔ Select suitable sizes and softness of sponge/balls to create desired effects and not harmful to garment
- ✔ Dilute Avco-Magic Liq to ratio as level of wash-out effect required
- ✔ Control Sponge/balls absorbent rate of diluted Avco-Magic Liq solution
- ✔ Control top-up spray of diluted Avco-Magic Liq on to the Sponge/balls between batches
- ✔ Control running cycle to ensure reproducibility

