



DENİM PROCESSES LIST

Nano Wet ED68 Wetting agent for caustification above 15 Be° Caustic Soda
 Anionic-Alkyl Sulphate
 Yellowish limpid liquid, practically no foam in the bath with caustic soda
 Good stability of solutions up to 33 Be°

Nano Wet ARNS Wetting agent for caustification up to 15 Be° Caustic Soda
 Anionic/nonionic mixture – sulphonated polyglycolic ethers
 Whitish- Jelly paste, practically no foam in the bath with caustic soda

Nano Wet AIR Wetting / Deaerating agent for indigo dye baths
 Anionic - Salt of a phosphoric acid ester
 Colorless to yellowish, low - viscosity liquid with a slight odour
 Good deaerating power at room temperature (indigo dyeing)

Nanoperse DNM Zero formaldehyde dispersing agent
 Anionic- Sodium salt of poly-nafthalene sulfonic acid
 Yellow / brown powder,
 Good dispersing power, less sulphate content (%8-9), better reproducibility

Nano Quest PA 40 Non foaming sequestering and protective colloid agent
 Anionic- mixture of Polyacrylate and phosphonate
 Good stability to acid, reducing and oxidizing agents
 Good sequestering at high alkaline condition (up to ph 12)

Nano Wet S Wetting/ Deaerating agent for sulphur dye baths
 Salt of a phosphoric acid ester
 Colorless to yellowish, low-viscosity liquid with a slight odour
 Good deaerating power especially high temp (70-80 °C)

Nano Activant N Antioxidant /reducing agent; mainly antioxidant
 Sodium polysulphate derivates
 Orange to yellow liquid, with a characteristic odour
 High antioxidation power

Nano Oxidant NI Oxidizing agent
 Anionic- Sodium Bromate solution
 Clear, liquid with a characteristic odour
 Good fixation of sulphur dyes, in acid condition (pH 3,5-4,5)

Nano Fix WW Strongly cationic fixing agent
 Cationic- Polyamine dispersion
 Yellowish, liquid with a characteristic odour
 Reduce wash baths and get darker shades compare usual process

Nanofil MPE Softener for conferring smoothness
 Nonionic- Polyethylene dispersion
 Milky, liquid ,High effect with low application quantities
 Resistant to yellowing, wash resistant sewability

Nano Soft EC 2250 Softener for denim fabric
 Pseudo Cationic – Fatty acid condensation products
 White, liquid
 Gives a brillant touch & Non- yellowing property

PRETREATMENT

Nano Wet ED68
 Nano Wet ARNS
 Nano Quest PA 40

Caustification (4-15 Be°)

| | |
|--------|-----------------------|
| 65 g/l | Caustic Soda (48 Be°) |
| 4 g/l | Nano Quest PA 40 |
| 5 g/l | Nano Wet ARNS |

Caustification (16-25 Be°)

| | |
|---------|-----------------------|
| 250 g/l | Caustic Soda (48 Be°) |
| 5 g/l | Nano Wet ED68 |

INDIGO DYEING

Nano Wet AIR
 Nanoperse DNM
 Nano Quest PA 40

Indigo Recipe

| | |
|-------|------------------|
| 3 g/l | Nano Quest PA 40 |
| 3 g/l | Nanoperse DNM |
| 3 g/l | Nano Wet AIR |
| X g/l | Liquid indigo |
| y g/l | NaOH (48 Be°) |
| z g/l | Hydrosulfite |

SULPHUR DYEING

Nano Wet S
 Nanoperse DNM
 Nano Quest PA 40
 Nano Activant N
 Nano Oxidant NI

Sulphur Recipe

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|--------|------------------|
| 5 g/l | Nano Quest PA 40 |
| 4 g/l | Nanoperse DNM |
| 4 g/l | Nano Wet S |
| x g/l | Sulphur Black |
| y g/l | NaOH (48 Be°) |
| 20 g/l | Nano Activant N |

Oxidation

| | |
|-------|--------------------|
| 7 g/l | Nano Oxidant NI |
| 7 g/l | Acetic Acid (pH 4) |

AFTERTREATMENT

Nano Fix WW
 Nanofil MPE

Fixing

| | |
|--------|-------------|
| 40 g/l | Nano Fix WW |
| pH 4 | Citric Acid |

Rope Open

| | |
|--------|-------------|
| 20 g/l | Nanofil MPE |
| pH 5 | Citric Acid |

FLAT FINISH

Nano Soft EC 2250

Softening

| | |
|--------|------------------|
| 50 g/l | Nano Soft EC2250 |
| pH 5 | Acid |

MOLCEM **NANO**

CHEMICALS



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