Machine: SYN 500

Number of ports: 2
Number of chambers: 2
Capacity / chamber: kgs 250
Liquor ratio pretreatment: 1 : 4,00
Liquor ratio dyeing: 1 : 4,00
Liquor refill ratio: 1 : 0,38
Liquor direct rinse: ltrs/sec 3,8
Carry Over: 1 : 2,25
Blower: kW 45
Blower Setting: 0,4
Main winch: kW 3.8
Saving factor with inverter: 0,6
Main pump: kW 7,5
Additions pump: kW 1,5
Plating device: kW 0,75
Local Hot water supply system: °C 45
Cold Water Temp.: °C 28
Nozzle DN: 110
Nozzle pressure (spray): bar 3,0
Speed: m/min. 300
Cycle time: min. 2.6

Fabric features

Article: 100% CO jersey
Process: Reactive 60°C
Colour: Black
gr/lm: 315
gr/m²: 180
Width cm: 175
Total capacity kg: 500
Total meters: 1587

Chemicals

0.5% Rucogen NOY (Wetting agent)[1] 0.82% Jak Orange CE [6]
1 g/l Rucolin ECM (Lubricant) [1] 0.6% Jakofix Red ME4BL [6]
0.5% Rucogen PTZ (Bleaching) [1] 8% Jakazol Black JNN [6]
0.12 g/l Soda [2] 3 g/l Soda ash [7]
3.6 g/l Alkali [7]
0.72 g/l Acetic Acid [3] 1.3 g/l Acetic Acid [8]
1 g/l Verolan NCB [4] 0.5 g/l Setawash SB (Soaping Agent) [9]
1 g/l Rucolin ECM (Lubricant) [4] 0.5 g/l Setawash SB (Soaping Agent) [10]
0.5 g/l Acetic acid [11]
75 g/l Salt [5] 8% Setasil AK (Softener) [12]

Results

Process time: min. 300
Machine steam: kgs 48
Hot water steam: kgs 928
Cold water: ltrs 3962
Hot water: ltrs 18016
Water for cooling **: ltrs 0
Electricity: kWh 110

Consumption per kg fabric:
Steam: kgs 1,95
Water: ltrs 43.96
Electricity: kWh 0.22
Compressed air: h.m³ 0.07

** cooling water recuperated