

## PIGMENT DYEING – CONCLUDING PART

REF: TT/ APRIL 2020 / WK 3

### Pigment Dyeing - Problems and their probable causes

- **Uneven/Patchy Dyeing** – Probable causes of uneven dyeing could be:
  - 1) Poorly pre-treated garments.
  - 2) Garments are not allowed to wet-out sufficiently before pretreatment.
  - 3) Very low liquor ratio during dyeing.
  - 4) High bath temperature at the beginning of dyeing.
  - 5) High rate of rising of dye bath temperature.
  - 6) Use of hard water.
  - 7) Acetic acid added early in dye bath. Generally, dye should be 70-80% exhausted and then acetic acid should be added.
  
- **Poor Dye yield** – Poor dye yield could be because of:
  - 1) Improper pretreatment.
  - 2) Improper holding time during dyeing cycle.
  - 3) Very high liquor ratio.
  - 4) Low agitation during dyeing.
  
- **Dye Spots** - Possible Causes are:
  - 1) Machine not clean properly.
  - 2) Garment not rinsed properly after pretreatment.
  - 3) Acetic acid added early in the dye bath.
  - 4) Dye not properly diluted or stirred before adding to the dye bath.
  - 5) Use of incompatible dye bath auxiliaries.



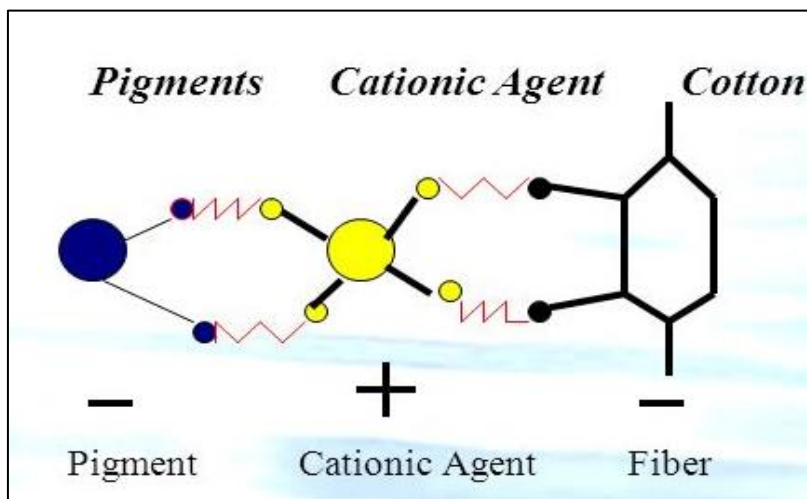


Fig 1.1 Pigment – Cotton Bond

Wishing you a great week ahead!

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