

Lecture-2

Contents

Textile?

Textile Wet
Processing?

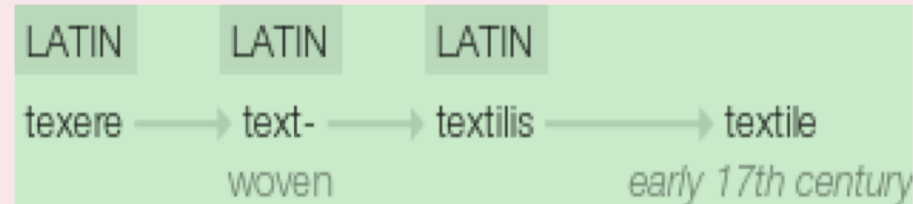
Essential
Terms &
definitions



Important Terms & Definitions in Textile Wet Processing:

Textile?

Process or
Product?



Only woven
fabric or more?

Fiber &

The product produced from
fiber like-yarn, fabric,
garments, etc.



Important Terms & Definitions in Textile Wet Processing (Continued):

Wet Processing?

Process related to
liquid

Textile Wet Processing?

Any Process
where textile
materials are
subjected to
liquid.

Main Focus:
Coloration
Also include-
retreatment &
Finishing



Important Terms & Definitions in Textile Wet Processing (Continued):

Material

Goods to be
processes

Liquor

chemical
mixture with
water

responsible
for chemical
reaction or
change



Important Terms & Definitions in Textile Wet Processing (Continued):

M:L
Material:Liquor

The ration between the goods to be processed and mixture of liquid to be used in that process

Example-
M:L=1:10

10 ml liquid is required to process
1 gm material.

Exercise-
How much liquor is
required to process 5 gm
material? If M:L=1:10.

For 1 gm material, required liquor is 10 ml
For 5 gm material, required liquor is (5x10) ml



Important Terms & Definitions in Textile Wet Processing (Continued):

Shade?

Depth of
color

Expressed as
percentage of dye
with respect to the
weight of the material

Example:
Shade=1.5%
owm?

For 100 gm
material,
required
amount of
dye is 1.5 gm

owm=on the weight of material
owf=on the weight of fabric

Sample-A
1% owm

Sample-B
0.5% owm



Important Terms & Definitions in Textile Wet Processing (Continued):

Affinity?

The attraction of
dye molecule to
fiber

Substantivity?

The rate at
which the dye
molecule
transfer to
fiber

Output of
affinity



Important Terms & Definitions in Textile Wet Processing (Continued):

Adsorption

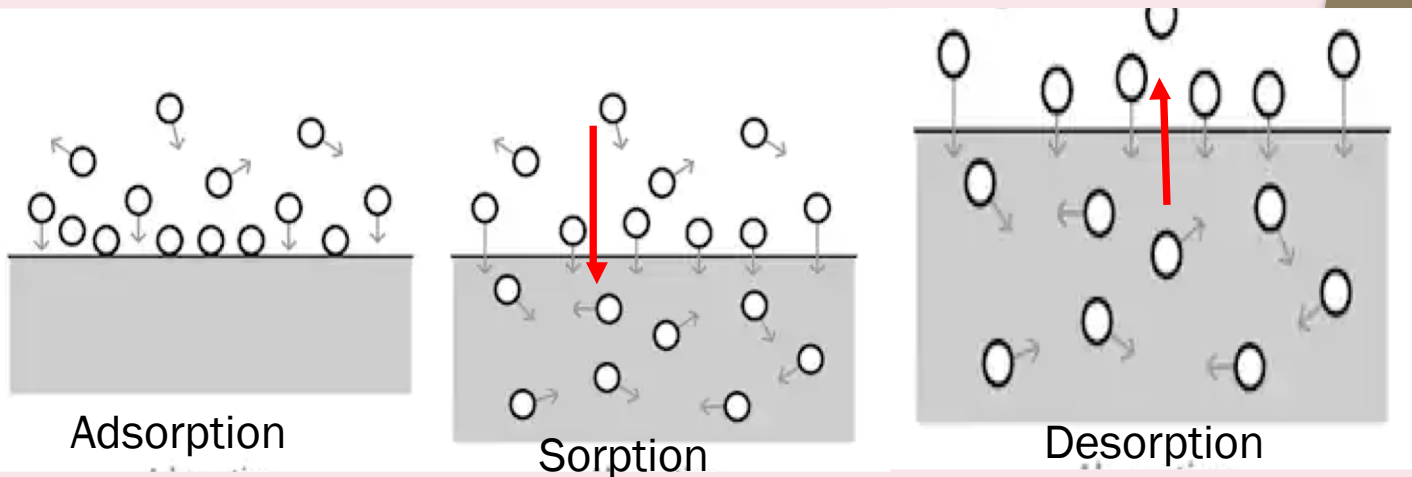
Dye molecules come to the outer surface of fiber

Sorption

Dye molecules enter into inner surface from outer surface of fiber

Desorption

Dye molecules come out from inner to the outer surface of fiber



Important Terms & Definitions in Textile Wet Processing (Continued):

Exhaustion

Total amount of
dyes absorbed by
the fiber in a dye
bath

Expressed as E%

Fixation

Total amount of
dyes finally fixed
(after washing)
with the fibers

Expressed as $F\% = E\% -$
(washing + soaping +
other) loss



