

Source of water/type of water:

Plate Singeing	Roller singeing	Gas singeing
1. One side of	1. One side of	1. Both side of
fabric is singed.	fabric is singed.	fabric is singed
2. Uniform temp	2. Uniform temp	2. Uniform
can not be	can not be	temp can be
maintained.	maintained.	maintained.
3. Extra lusture	3. Extra lusture	3. No extra
produce, due to	produce, due to	lusture is

friction between

Compare Plate, Roller & Gas singeing :

friction between

Rain water 1.

Surface water

Subsoil water 3.

Deep well water

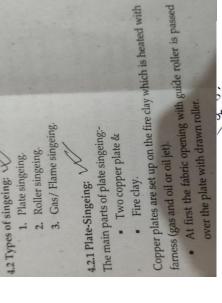
Soap	Detergent	
 Soap is sodium or pottasium salt of higher fatty acids. 	Detergent is sodium or pottasium salt of long chain benzene sulphuric acid or sodium salt of a long chain alkyl hydrogen sulphate.	
2. Soaps are produced from natural oils and fats.	Detergents are produced from hydrocarbons of petroleum.	
3. Soap can give effective cleaning action to soft water only.	3. Detergent can give to both soft and hard water.	
4. Soap is generally used for cleaning agent in domestic purpose.	4. It is used in textile purpose such as finishing, dyeing, laundry mills etc.	

3.12 Stripping:

If the textile goods become uneven dyeing and unsuitable for using, the colour has to be removed. The process is called stripping.

The colour can usually be removed -

- by boiling with sodium hydrosulphite,
- by bleaching with a solution of sodium hypochlorite containing 1 to 2 gm per litre of available chlorine,
- by boiling with 1 to 2 percent of sodium chlorite which has been brought to a PH between 3 to 4 or



3.4 Chemical Classification of Direct dye: Azo derivatives: Most of the colors belonging to this class are sulphonated

b) Di-azo: Congo Red (C.I. Direct Red 28) 14 Classification of hardness:

1. Temporary hardness.

Permanent hardness.

1. Temporary hardness: Temporary hardness is due to the presence of bi-carbonates of calcium and magnesium. This type of hardness is called temporary hardness. Because it can be removed by easy means like boiling. When temporary hard water is boiled, the carbonates decomposes with liberation of Carbon-dioxide and precipitation of the insoluble Carbonates which are reformed.

$$Ca(HCO_3)_2$$
 \triangle $CaCO_3 \downarrow + CO_2 + H_2O$
 $Mg(HCO_3)_2$ \triangle $MgCO_3 \downarrow + CO_2 + H_2O$

3/11 Cotton dyeing with Direct dye: Typical recipe-

Wetting agent=1.0-2.0gm/L

Sequestering agent=1.0-2.0gm/L Leveling agent=0.5-1.0gm/L Direct dye→ x% Soda ash → 1-5gm/L Glauber or common salt -5gm/L [for light shade] 10gm/L[for medium shade] 20gm/L [for dark shade] PH - neutral or slightly alkaline, M:L→ 1:5-1:10

Time =60-90min. Dyeing process:

Temperature=900-100°C

The dyeing process is described below:

3. Fabric dyeing machine:

2.1. Fiber dyeing (Loose stock form): Hussong loose cotton dyeing machine

Conical pan loose stock dyeing Annular cage for loose stock dyeing