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H₂O₂ Hydrogen Peroxide

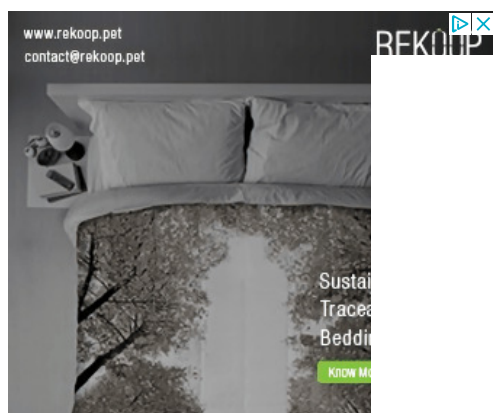
Hydrogen

Cotton

Bleach Whitening

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Bleaching Recipe of Hydrogen Peroxide (H₂O₂) for Different Machine



Bleaching Recipe of Hydrogen Peroxide (H₂O₂) for Different Machine and Package

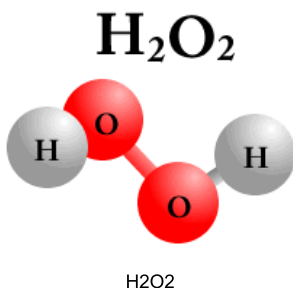
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Hydrogen Peroxide (H₂O₂)

Hydrogen peroxide is a strong oxidizer and is used as a bleaching agent. It is an **universal bleaching agent** and can be employed for wool, silk as well as cotton. It is specially suited to the bleaching of union fabrics containing both cotton and wool or silk. Here different recipe are given for different package form and machine..



Bleaching Recipe of Hydrogen Peroxide (H₂O₂) for Different Purposes:

H₂O₂ bleaching in package form (for yarn dyed, check, stripe fabric):

- M/C are used mainly for treating yarns & loose cotton
- Before starting **bleaching** a pretreatment is sometimes carried out consisting of circulation through the package for solution of sodium tri-poly phosphate & some wetting agent at 95 for 5-10 mins.

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- This treatment removes surface impurities & prevents deposition of Ca & Mg salt in the package.

Recipe for package form bleaching (H₂O₂):

Sodium silicate	2-7 g/l
NaOH	0.5 g/l
Na ₂ CO ₃	1.8 g/l
H ₂ O ₂ (35%)	4.5 g/l
Wetting agent	1 g/l
Temp	is raised to 90 in 20-30 min & maintained for 1-2 hours
M:L	1:5 to 1:10

Recipe for high temp bleaching:

Sodium silicate	4 g/l
NaOH	2-5 g/l
Na ₂ CO ₃	1 g/l
H ₂ O ₂ (35%)	4.5 g/l
M:L	1:5 to 1:10

Procedure:

Temp is first raise to 80 in 20 mins



Then the m/c is closed



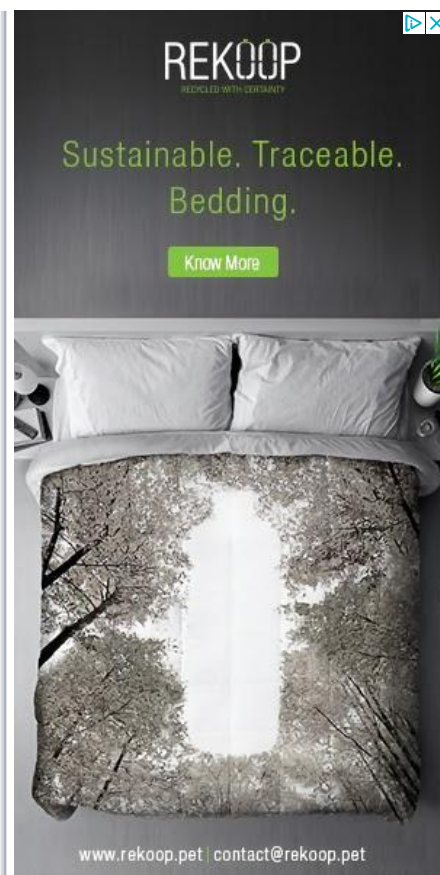
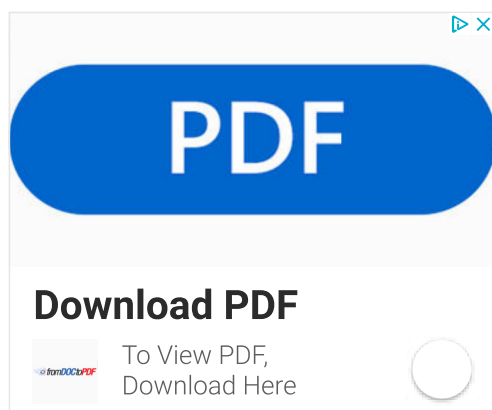
The temp is elevated to 120-130 & maintained at this level for further 20 mins

Bleaching of cotton with H₂O₂ in a winch m/c (recipe):

Sodium silicate	7 g/l
NaOH	0.5 g/l
H ₂ O ₂ (35%)	1-2 g/l
Wetting agent	1 g/l
Temp	90-95
Time	1-2 hour
M:L	1:5 to 1:10

Bleaching of cotton with H₂O₂ in a jig m/c (recipe):

Sodium silicate	4-10 g/l
NaOH	1-1.5 g/l
H ₂ O ₂ (35%)	1.5-3.5 g/l
Wetting agent	1 g/l
Temp	80-110
Time	1-3 hour



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Editor-in-Chief:



Mazharul Islam Kiron is a textile consultant and researcher on online business promotion. He is working with one European textile machinery company as a country agent. He is also a contributor of Wikipedia.

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Advantages and Disadvantages of Peroxide...



Stripping Process of Bleach Clean-up Reactive Dye



Bleach Clean-up Process for Fabric



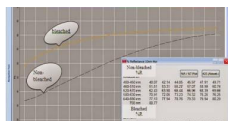
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