



PISCEAN CENTURY CHEMICALS PTE LTD

Head Quarters : Singapore
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BIOSCOUR GX-1/08-2007

H.S CODE: 3507.90.00

BIOSCOUR GX-1

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BIOSCOUR GX-1 is a combined chemical and enzymatic product designed for the scouring and pretreatment preparation of cotton, T/C goods prior to the dyeing and finishing processes.

BIOSCOUR GX-1 in addition with hydrogen Peroxides in a one bath process will remove cotton motes, breaking down pectin, lignin, natural cotton colourings, salt, waxes, ash and other cellulosic impurities before dyeing, thereby dramatically improving the evenness and absorption of dyes and auxiliaries in the dye bath.

The use of **BIOSCOUR GX-1** improves the reproducibility and yield of dye batches, reduces overall costs, effluent treatment and process time.

Advantages of using **GX-1**, in comparison with the conventional Caustic/hydrogen peroxide products:

1. Increased treated cotton yield: **GX-1** reduces excessive cotton weight loss during the scouring process by conventional caustic processes by about 3% to 5%.
2. Increased absorbency: Increased dye depths, levelness of dyeing.
3. Increased softness, thereby reducing costs of softening (Yarn and knitted goods)
4. Reduced waste water pollution: No addition of other auxiliaries like: bleach stabilizer, wetting and emulsifying agents, detergents, defoamers. Just **GX-1** and Hydrogen Peroxides.
5. Reduced neutralizing Chemicals, catalases, rinses: Finished bath pH value = 8.5 +/- 1 in comparing to pH of 13-14 by the caustic method.
6. Reduced workers' fatigue: Just weigh in **GX-1** and Hydrogen Peroxides, no handling of other chemicals needed.



CERT. NO. : 2001-2-1286
SS ISO 9001: 2000



CERT. NO : SG-1286



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PHYSICAL PROPERTIES:

Appearance	: Light Tanned, free flowing non-dusty powder/granular
pH value (1g/L)	: 10 +/- 1
Solubility	: Soluble in warm to hot water, under agitation

USERS' RECOMMENDATIONS:

1. Cellulosic Yarn Pretreatment/scouring :(Kier dyeing machine)

Dosages:

2-3g/L of GX-1 (To be predissolved in 70°C hot water)

CHINA : PISCEAN CHEMICALS (SUZHOU) PTE LTD

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4-10g/L of Hydrogen Peroxide, 27% - 30% ig

Liquor ratio : About 1:10

Temperature : 90°C- 100°C

Duration of treatment : 45mins to 60 mins

Dose in dissolved **GX-1** into machine, run for 5 mins at below 50°C then add in Hydrogen Peroxides. Raise temp to between 90°C- 100°C. Run for 40- 60 mins. Drain, rinse 1X 60°C X 15 mins. Fill in cold, new bath, adjust pH with acetic acid to 6-7. Add Percatalase PCN-500(0.05g/L) run 15-20 mins, add in dyes & auxiliaries in same bath, continue dyeing process.

1. Cellulosic /cotton knit fabrics (Jet/Winch machines)

Dosages:

2-3g/L of GX-1 (To be predissolved in 70°C hot water)

5-10g/L of Hydrogen Peroxide (30% ig)

Liquor ratio : About 1 : 10

Temperature : 90°C- 100°C

Duration of treatment : 45 – 60 mins

Dose in dissolved **GX-1** into machine, run for 5 mins at below 50°C then add in Hydrogen Peroxides. Raise temp to between 90°C- 100°C. Run for 40-60 mins. Drain, rinse 1X 60°C X 15 mins. Fill in cold, new bath, adjust pH with acetic acid to 6-7. Add Percatalase PCN-500(0.05g/L) run 15-20 mins, add in dyes & auxiliaries in same bath, continue dyeing process.

2. Cellulosic /cotton woven fabrics (Jigger machines)

Dosages:

GX-1 : 3% o.w.f

H₂O₂ (30% ig) : 30-80g/L

Temperature : 90°C- 100°C

Duration of treatment : 40 – 60 mins

Dose in dissolved **GX-1** into machine, run for 5 mins at below 50°C then add in Hydrogen Peroxides. Raise temp to between 90°C- 100°C. Run for 40- 60 mins. Drain, rinse 1X 60°C X 15 mins. Fill in cold, new bath, adjust pH with acetic acid to 6-7. Add Percatalase PCN-500(0.05g/L) run 15-20 mins, add in dyes & auxiliaries in same bath, continue dyeing process.

3. Cellulosic /cotton woven fabrics (continuous range)

Dosages:

GX-1 : 8-15g/L

H₂O₂ : Up to 100g/L (Depending on fabric types)

Wet Pick up : 60% - 100%

Steaming : 90°C- 100°C

Duration in Hot Box : 30 – 60 mins



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To be followed by hot rinse, cold rinse with acetic acid neutralization before dyeing printing.

PACKINGS : 30kg Bags

STORAGE : Keep in a cool and dry place. Avoid direct sunlight, heat source. Close container's lid tight when not in use to avoid possible contamination.

STORAGE : When kept at below 30°C the product is stable for at least six months from date of production.

TRANSPORT : Product is not hazardous for transportation and is not classified as marine pollutant.

Separate MSDS is available upon request



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