

StarChem™ AC CONC.

Outstanding leveling agent/barré preventative for nylon

Product Description

StarChem™ AC CONC. is specially designed for dyeing nylon with mono- and disulfonic acid dyes. With these types of dyes, StarChem™ AC CONC. gives controlled tone on tone strike rate and outstanding migration that produces level dyeing and excellent barré coverage.

Special Properties

- Economical
- Low salt content
- Outstanding migration
- Contains no methylene chloride
- Specially designed for mono- and disulfonic acid dyes
- Barré coverage

Typical Physical Properties*

Appearance.....liquid
Color.....yellow/brown
Specific Gravity.....1.15
Ionicity.....anionic
pH (10%).....8.0–10.0
Odor.....none
% Solids.....45.0–47.0
Dispersibility.....soluble in water

** These items are provided as general information only. They are approximate values and are not considered part of the product specifications.*

Application

How to Dissolve

Pre-mix 1 part StarChem™ AC CONC. with 2–3 parts cold or warm water before adding to a cold or warm bath.

How Much to Use

Generally, use 1–2% on weight of goods (owg) StarChem™ AC CONC. for optimum leveling and barré coverage. Overuse of StarChem™ AC CONC. may cause excessive retardation.

Typical Application

1. Pre-scour goods as usual.
2. Set bath cold [80°F (27°C)] with owg StarChem™ AC CONC..
3. Add properly boiled acid dyes.
4. Heat to boil with a rate of rise of 3–4°F (1.5–2°C) per minute. Hold for 30–60 min.
5. Turn off steam and check shade.
6. Dye adds, if necessary, may be made at 180°F (80°C).
7. When on shade, drop bath. Rinse thoroughly with cold water for about 20 min.

pH Control

pH control is a key factor in successful nylon dyeing. Nylon 6 requires a starting pH of 6.5–8.5 depending on dyeability. Nylon 6,6 requires a starting pH of 5.5–6.5.

In carpet dyeing, best results are obtained when the

required pH is set with buffers because they maintain the starting pH throughout the dye cycle.

TANATEX® LIQUID BUFFER-IN H AND L is an ideal answer to this need.

In dyeing of fabrics on becks, beams, etc. and of yarns in package dyeing equipment, the pH may be set with a buffer system or by the acid generating system which is based on the use of ammonium sulfate and ammonia. As the dyeing cycle progresses, the ammonia evaporates and the pH gradually falls from about 8.5 down to 6.5–7.0 thus allowing gradual and complete exhaustion of the dyes.

Storage

If exposed to temperatures below 32°F (0°C) for long periods, StarChem™ AC CONC. may freeze. If this occurs, thaw at room temperature and mix well before using.

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