

AVCO-LEV POL LF

ANTI "BARRE" LEVELLING AGENT AND ACCELERATOR FOR POLYESTER DYEING

AVCO-LEV POL LF is a new generation of levelling agent designed for the "rapid" dyeing systems of polyester in HT machines. The product imparts excellent migration properties to the dyestuff and overcome differences in affinity caused by the polyester fibers

AVCO-LEV POL LF is a highly concentrated product, beside of being an excellent levelling agent the product has also good scouring effect and is recommended also for the one bath scour/dye process.

AVCO-LEV POL LF is composed of biodegradable ingredients with no potential for bio-accumulation, and with no evolution of toxic compounds during biodegradation.

SPECIFICATIONS:

Appearance	Yellow to slightly brown opaque liquid
Chemical nature	Blend of nonionic and anionic surface active agents with solubilizers and organic esters
Ionicity	Nonionic/ anionic
pH (10%)	7 ± 1
Solubility	Miscible with water to produce white emulsion
Compatibility	Can be used with all chemicals used in dyeing of polyester
Storage	Slightly sensitive to frost. Fully usable after thawing and stirring. Shelf life is at least 12 months.

PROPERTIES & USES:

1. Excellent levelling properties when use for dyeing at the boil and under HT conditions.
2. The product is low foaming, particularly suitable for every type of fabric on the Jet dyeing machines
3. AVCO-LEV POL LF can level-out "barriness" problem and produces excellent coverage of stripes
4. Levelness of "tri-chromic" dyes or other dye combinations are excellent with very even dyestuffs build up
5. Very good results when dyeing in systems difficult to level such as beams and yarn machines.
6. Shortens dyeing time, even when increasing heating rate to 4°C/minutes, dyeing results are very even and level.
7. Excellent dispersing properties

8. The light fastness of polyester dyed with AVCO-LEV POL LF will not be influenced
9. Can be used for levelling-out faulty dyeings
10. Low foam product
11. AVCO-LEV POL LF has an excellent washing effect and is recommended for the one step scour/dye process
12. Easy dosable. Suitable for automatic dispensing system

APPLICATION:

1. AVCO-LEV POL LF is added to the dye bath before the dye addition. The product should be diluted with 1:3 amount of luke-warm water(30-40°C)
2. Usage recommendation is 0.5-1 gr/l. In difficult conditions, usage of 1-3 gr/l is recommended
3. For light shades increase the amount of AVCO-LEV POL LF in order to obtain excellent levelling and migration properties
4. When dyeing at boil increase amount of AVCO-LEV POL LF
5. For getting maximum coverage of barriness select the most suitable dyestuffs
6. For levelling-out faulty dyeing apply 1-3gr/l AVCO-LEV POL LF at HT conditions for 30-60 min.

Procedure:

1. Load machine, run for 3-5min, with cold water to remove emulsifiable lubricants and drop (option)
2. Add fresh water.Heat to 40-50°C and add the pre-diluted product to warm water and circulate for 3-5 minutes
3. The bath is adjusted with acetic acid to pH 4-5
4. Add dyestuffs by linear dosing over 10 minutes
5. Raise to 130°C and hold for 30 minutes.
6. In difficult conditions,hold for longer time 45-60 min.
7. Cool down to 70°C and drop bath.
8. Rinse with cold water
9. Add reduction-clearing procedure if needed

For getting maximum coverage of barriness, select the most suitable dyestuffs.
Apply 2 - 3% o.w.g. AVCO-LEV POL LF, dye at 130-135°C for 60 minutes.