

## AVCO-POLYLEV 2000

*ANTI "BARRE" LEVELLING AGENT & GOOD DISPERSING AT HIGH TEMP FOR POLYESTER DYEING*

AVCO-POLYLEV 2000 is a new generation of leveling agent designed for the "rapid" dyeing of polyester in HT dyeing machines. The product imparts excellent dispersing properties to the dyestuffs and overcomes differences in affinity caused by the polyester fibres.

AVCO-POLYLEV 2000 is a highly concentrated product, beside of being an excellent leveling agent, the product has also good scouring effect and is recommended also for the one bath scour / dye process.

AVCO-POLYLEV 2000 is composed of biodegradable ingredients with no potential for bioaccumulation, and with no evolution of toxic compounds during biodegradation.

### *SPECIFICATIONS:*

<b>Appearance</b>	Yellowish liquid
<b>Chemical nature</b>	Blend of non-ionic and anionic surface- active agents with solubilizers and organic esters.
<b>Ionic type</b>	Non-ionic / anionic
<b>pH (0.1% SOL.))</b>	6 - 7
<b>Solubility</b>	Miscible with water to produce white emulsion.
<b>Compatibility</b>	Can be used with all chemicals used in dyeing of polyester.
<b>Storage</b>	Shelf life is at least 12 months. The product is slightly sensitive to frost. Fully usable after thawing and stirring.

### *PROPERTIES & USES*

1. Excellent leveling properties when used for dyeing at the boil and under HT conditions.
2. AVCO-POLYLEV 2000 can level-out "barriness" problem, and produces excellent coverage of stripes.
3. Levelness of dyes in tri-chromine and other dye combinations are excellent with very even dyestuffs build-up.
4. Very good results when dyeing in systems difficult to level such as beams and yarn machines.

The information given in this bulletin is, to the best of our knowledge accurate. It is intended to be helpful is not to be considered a guarantee.

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5. Shortens the dyeing time, even when increasing the heating rate to 4°C/min, dyeing results are very even and leveled.
6. Excellent dispersing properties.
7. The light fastness of polyester dyed with AVCO-POLYLEV 2000 will not be influenced.
8. Can be used for leveling - out faulty dyeing.
9. Highly concentrated product.
10. 10. AVCO-POLYLEV 2000 has an excellent washing effect and is recommended for the one step scour/dye process.
11. Low foaming product.
12. Easy to dose. Suitable for automatic dispensing system.

**APPLICATION:**

1. The usage recommendation is: 0.5 - 1g/l. In difficult conditions, the usage of 1-3 g/l is recommended.
2. For light shades increase the amount of AVCO-POLYLEV 2000 in order to obtain excellent leveling and migration properties.
3. For getting maximum coverage of barriness, select the most suitable dyestuffs.
4. For leveling-out faulty dyeing apply 2-3 g/l of AVCO-POLYLEV 2000 at H.T. conditions for 30-60 min.

**PROCEDURE:**

1. Load the machine, run for 3-5 min. with cold water to remove emulsifiable lubricants and drop. (optional)
2. Add fresh water and add AVCO-POLYLEV 2000 to water and run for 3-5 minutes.
3. The bath is adjusted with AVCO-CID PHS to pH 4-5.
4. Add the dyestuffs by linear dosing over 10 min.
5. Raise the temperature to 130°C and hold for 30 minutes.
6. In difficult conditions hold for longer time 45-60 min.
7. Cool down to 70-80°C and drop the bath or HT drop.
8. Rinse with cold water.
9. Apply the reduction clearing procedure if needed.