

AVCO-TAN D261

THICKENER FOR DISPERSE DYES PRINTING

AVCO-TAN D261 is a synthetic thickener developed for the convenient production, handling and use of disperse dyes printing pastes.

The product has all the advantages of synthetic thickeners with lower sensitivity towards electrolytes.

SPECIFICATION:

Appearance	Milky white viscous liquid
Chemical nature	Synthetic Acrylate polymer
pH (as is)	5.0 - 7.0
Solubility	Dispersible in water, in concentration up to 2- 4.5%, forms viscous paste.
Compatibility	<ol style="list-style-type: none"> 1. Can be used together with all chemicals and dyestuff normally encountered in printing disperse dyes. Is not compatible with strong alkalis, acids, metallic ions, cationics and concentrated electrolytes. 2. Can be used with hard water together with a suitable complexing agent.
Storage stability	Stable for 12 months at least, when stored in a dry place in close container. Do not store in direct sun.

PROPERTIES & USES:

1. Outstanding coverage and levelness, sharp definition of prints. Excellent results when printing delicate and fine fabrics.
2. Increased color yield with good reproducibility.
3. Produces smooth paste during short mixing time.
4. Printing paste viscosity is stable for long storage time.
5. Good wash-off properties.
6. Does not react with disperse dyestuffs.
7. Very good penetration properties into high pile fabrics.
8. Does not bleed out of rotary screens during machine stops.
9. Does not clog printing screens.
10. Very easy to adjust viscosity, no need for prolonged swelling time.

APPLICATION:

When preparing the printing paste, all the ingredients should be added as the order in the formulation. The thickener should be added while mixing, It will easily disperse and fully hydrate in some minutes.

1. Printing paste formulation for disperse dyes

a. Only AVCO-TAN D261

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|-----------------|------------|
| • Water | 900 |
| • AVCO-TAN D261 | 20 - 45 |
| • Disperse dyes | x |
| • Add Water | up to 1000 |

Printing paste preparation:

The thickener should be added while mixing, It will easily disperse and fully hydrate in some minutes. Then add pre-diluted disperse dyes. Pre-diluted dyestuffs should be added to the paste while stirring. If needed, in a very high dye concentration, viscosity re-adjustment is done easily by adding thickener during high speed mixing.

No need to use acid to adjust the pH including turquoise or blue colour.

b. Combine synthetic thickener AVCO-TAN D261 and Natural thickener AVCO-TAN P5C HV

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|----------------------------|---|
| • Water | 500 – 600 |
| • Citric acid | 0.1 (for blue or turquoise colour uses 0.2) |
| • AVCO-TAN P5C HV | 30 |
| • AVCO-TAN D261 | 10 |
| • Prediluted disperse dyes | x |
| • Add water | up to 1000 |

Procedure:

Add 500kg – 600kg of water, add citric acid while stirring to dissolve completely then add slowly AVCO-TAN P5C HV while mixing at high speed. Mix for 5 minutes. Add slowly AVCO-TAN D261 while mixing until obtain the homogeneous paste. Finally add pre-dissolved dyestuff and fill up the water to 1000kg.

2. Fixation

Fixation should be done in the normal procedure required by the type of fixation machine and dyestuffs used.

Fixation of disperse dyes:

- pressurized steam at 0.5-2 atm. for 20-30 min.
- HT steam at 165-180°C for 6-8 min.
- Thermosol at 205-210°C for 60-90 seconds.

3. Washing off

Washing off should be done with soft water, or with tap water with the addition of complexing agents. Temperature, type of washing aids and procedures depends on the machinery and dyestuffs. (For more details refer to the technical bulletins of AVCO-LPET).