

Technical - Information

AVCO-TAN R617

BLENDED SYNTHETIC THICKENER

AVCO-TAN R617 is a high quality blend of acrylic synthetic polymer dispersion and natural thickeners.

AVCO-TAN R617 is suitable for printing cellulose substrates with reactive dyes. The selection of synthetic and natural thickener in the combination to make this TAN R617 is more suitable for pure cotton substrate, however, it is also suitable for cotton blend substrate but testing is strongly recommended prior to mass production to make sure acceptable printing properties especially sharpness, color yield and penetration.

SPECIFICATION:

Appearance	Brown dispersion.
Chemical nature	Blend of Acrylic polymer with natural thickener.
pH (1% in DI water)	5 - 8
Ionicity	Anionic.
Solubility	Dispersible in water, in concentration up to 3 - 5% to form viscous paste.
Compatibility	Can be compatible with all anionic and nonionic auxiliaries used normally in substantive printing process.
Storage stability	Stable for at least 6 months, when kept in dry place in tightly closed packages.

PROPERTIES & USES:

1. AVCO-TAN R617 is an ecologic and economic thickener for substantive printing processes including after washing steps.
2. AVCO-TAN R617 reduces stock preparation time and is not necessary to back thicken stock pastes with dyestuffs.
3. Gives a better color yield and definition than most natural thickeners like sodium alginate.
4. Ensures a good viscosity stability while adding dyestuffs. Should increase the dosage if liquid dyestuff used in order to match the viscosity sought.
5. AVCO-TAN R617 is extremely easy to use and has excellent washing-off properties, so the prints have soft handle.
6. AVCO-TAN R617 can be used at different viscosities and printing speed range.
7. Suitable for dispersing in automatic make up units.

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8. AVCO-TAN R617 is designed for very convenience preparation of reactive printing formulation which can be effectively thickened by direct addition to the mixture or AVCO-TAN R617 can be used as part of the customer's specific thickener stock preparation.

APPLICATION:

When preparing the stock printing paste, all the chemicals should be added to soft water and allowed to dissolve prior to adding the AVCO-TAN R617. The thickener should be added while mixing, it will easily disperse and fully hydrate in 10 - 15 minutes.

1. Recommended dosage:

Reactive printing: 3 – 5%

2. Fixation:

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

3. Washing off:

The first rinse should be carried in cold water first so the polymer is easily removed in order to have a soft handle.

4. To improve definition of the print borders with problematic designs, addition of AVCO-GEN KRK (special antimigrant) is very beneficial. Use of 10 - 15 g/kg will result in sharp and clear borders of the printed area.