



## PRODUCT LITERATURE

### ESTO-PVP

#### Product Information

Esto-PVP is a concentrated product to avoid cross-staining of dyes in washing-off of dyed and printed substrates. Esto-PVP can be used in batch as well as in continuous operation. During washing-off, Esto-PVP forms weak complex with anionic dyes which is kept in dispersion throughout washing process and prevents re-deposition thereby cross-staining is avoided. Due to its good rinse ability, Esto-PVP is easily washed-off and does not interfere in subsequent dye fixing or softening. Esto-PVP can be used against conventional washing off agents. It is also recommended for stripping of reactive dyes. Esto-PVP is very good levelling agent for vat dyeing.

#### Key Features & Benefits

Key Features	Benefits
Concentrated powder product	Reduced freight cost
Good dispersing action	Prevents re-deposition and cross staining during washing process
Versatile application	<ul style="list-style-type: none"><li>- Used as washing off agent for Reactive dyed/printed substrates.</li><li>- Very good washing off agent for reactive printed goods to avoid cross staining</li><li>- Used as a levelling agent for vat dyes.</li><li>- Used as a partial stripping agent for Reactive dyes at higher dosage.</li></ul> Very useful for shade correction.

#### General Characteristics

Physical appearance	White to yellowish powder
Ionic nature	Nonionic
pH of 1% solution	5 +/- 1
Miscibility	Miscible with water
Compatibility	Compatible with cationic, anionic & nonionic products
Stability	Stable to dilute acids and dilute alkalies

#### Application

##### 1.Washing-off of dyeing by batch operation

Esto-PVP : 0.2-0.5 g/l  
pH adjusted to : 5-6  
Residual salt concentration should be less than 2 g/l before soaping.  
Treat at 85-98°C for 10-30 min.

##### 2.Washing-off of dyeing and prints on continuous range

Esto-PVP : 0.75-1 g/l  
pH adjusted to : 5-6  
Temperature : 95-98°C for 7 to 10mins in continuous washer.



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3. Partial stripping for shade corrections in jet or soft flow

Esto-PVP : 0.5-0.75%  
pH adjusted to : 5-6  
Temperature : 95-98°C for 15 to 30mins.

4. Complete Stripping of Reactive dyes

Esto-PVP : 0.5 -1 g/l  
Caustic soda flakes : 4-6 g/l  
Sodium hydrosulphite : 4-6 g/l  
Celldet-R : 1-2 g/l  
Temperature : 70-80°C  
Time : 45-60 min.  
Wash and neutralize before over-dyeing

5. Vat leveling agent.

Esto-PVP (10% dil.) : 0.5 -1 g/l to be added in dye bath along with dyestuff

### Precautions

Storage	Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg c. Close lids firmly to avoid contact with air and moisture.
Shelf Life	9 months from the date of manufacturing, if stored under controlled conditions.