

## Technical - Information

# AVCO-LEVELER NI

## NONIONIC LEVELLING AGENT

AVCO-LEVELER NI is a versatile nonionic textile dyeing auxiliary used in various fields : Vat dyeing assistant in low concentrations. Vat stripping agent at higher concentrations. Levelling agent for continuous vat dyeing and for pad-Jig work. Dispersing agent for disperse dyes when applied to Polyamide and Acrylic fibers. Anti precipitant in the dyeing of wool or Polyamide mixtures with acrylic fibers, where acid dyestuffs and basis dyes are used in the same bath. Leveller for dyeing cellulose fibres with direct dyes. Levelling agent for pigment dyeing by exhaustion.

### SPECIFICATION:

<b>Appearance</b>	Clear, colorless liquid, viscous in cold temperature.
<b>Chemical nature</b>	Ethoxylated fatty alcohol in aqueous solution.
<b>pH (5% sol.)</b>	7.5 ± 1.0
<b>Ionicity</b>	Nonionic.
<b>Solubility</b>	Soluble in water at any proportion.
<b>Compatibility</b>	Can be used in all kinds of dyeing processes.
<b>Storage</b>	Solidifies at temperature below 10°C, fully useable after thawing out. Shelf life is at least 12 months.

### PROPERTIES & USES:

1. Very versatile leveling agent for dyeing Vat, disperse, directs and pigments.
2. Anti- precipitant for dyeing cationic and anionic dyes.
3. Suitable for all kinds of dyeing machines.

### APPLICATION:

#### 1. Vat dyes stripping

AVCO-LEVELER NI retards the dyeing rate of vat colours in direct proportion to the concentration used. The conditions existing in a stripping bath containing AVCO-LEVELER NI promotes dye solution and destroys dye affinity so that the colour will not dye back on.

The following recipe is suggested for stripping vat colours:

AVCO-LEVELER NI	1.5 – 2	%
Sodium Hydrosulfite	1 – 2	g/l
Caustic soda	0.5 – 1	g/l

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Add chemicals at 50 – 60°C, raise temperature to the boil, and treat at 95 – 100°C for 30 – 45 minutes, followed by thorough rinsing.

### **2. Vat dyeing**

AVCO-LEVELER NI is a good vat dyeing assistant at low concentrations.

At a concentration of 0.1 – 0.2 % AVCO-LEVELER NI controls the dyeing rate to give more level dyeing.

### **3. Disperse dyes on nylon**

When dyeing nylon with disperse dyes AVCO-LEVELER NI disperse the dyestuffs and has no affinity to the nylon.

A concentration of 0.25 to 0.5% on weight of the good is sufficient.

### **4. Dyeing with direct dyestuff**

AVCO-LEVELER NI is particularly good in the dyeing of direct dyestuffs especially where the concentrated color is padded on the goods before dyeing. In the dyeing of direct colours a concentration of 1 – 5 g/l of AVCO-LEVELER NI based on the volume of dyeing liquor is recommended.

### **5. Dyeing blends of PAC/PA**

Blends of Poly-acrylic and Polyamide fibres can be dyed with cationic and acid dyes by one bath method employing AVCO-LEVELER NI as an anti-precipitant. Use 0.5 – 2 g/l in the dyeing bath.

### **6. Pigment dyeing**

The addition of 1 - 2 g/l of AVCO-LEVELER NI in pigment dyeing bath improves levelness.