

Technical - Information

# **AVCO-NTROLS**

ALKALI BUFFER FOR DYEING REACTIVE DYESTUFF

AVCO-NTROLS is an alkali donor and buffer preparation used for dyeing cellulosic fibres with reactive dyestuff in jets, winches and jiggers.

### SPECIFICATION:

Appearance	White granular.		
Chemical nature	Inorganic alkaline buffer.		
Solubility	Soluble in water at any proportion.		
pH (10% sol.)	12 - 14		
Foaming	Solution of AVCO-NTROLS is non-foaming.		
Compatibility	When using slightly hard water, it is recommended to add a sequestering agent such as AVCO-POLYQUEST 1096. In general, it is recommended to use soft water while dyeing. AVCO-NTROLS is not compatible with products sensitive to high alkalinity.		
Storage	When properly stored in closed container, shelf life is at least 12 months.		

### PROPERTIES & USES:

- 1. AVCO-NTROLS is a buffer preparation which controls the pH in the dyeing liquor through the whole dyeing process.
- 2. AVCO-NTROLS is replacing usage of sodium carbonate (Soda ash) and sodium hydroxide (caustic soda). Being an alkali buffer, it ensures a stable pH level, and consequently produces a very uniform fixation of the reactive dyestuffs onto cellulosic fibres.
- 3. Improvement of dyeing reproducibility.
- 4. More level dyeing.
- 5. Shortening of dyeing process.
- 6. Used of AVCO-NTROLS eliminates handling of big amount of powdery soda ash Na<sub>2</sub>CO<sub>3</sub> (usage of AVCO-NTROLS is about one quarter of the amount of soda ash).



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## APPLICATION:

When replacing soda ash by AVCO-NTROLS the amount of Sodium ions in the dye-bath will be reduced, so to compensate for the loss of sodium ions, then increase the concentration of  $Na_2SO_4$  to 18%.

Following are dosing recommendation of AVCO-NTROLS depending on concentration of dyestuff:

DYESTUFF (%)	AVCO-NTROLS (in LAB)	of AVCO-NTROLS (in PRODUCTION)	SODA (in PRODUCTION)
	gr/l	gr/l	gr/l
0.0 - 0.5	1.8	2.6	12
0.5 - 1.0	2.2	2.9	16
1.0 - 1.5	2.5	3.3	18
1.5 - 2.0	2.7	3.6	22
2.0 - 2.5	2.9	3.9	22
2.5 - 3.0	3.1	4.3	22
3.0 - 3.5	3.3	4.6	25
3.5 - 4.0	3.7	4.8	25
4.0 - 5.0	4	5	25
> 5.0	4.5	5.8	25

## SAFETY:

AVCO-NTROLS is a corrosive alkaline material, and should be handled with care.

Goggles and gloves should be worn during handling. When handling large quantities or cleaning spills, use also apron and rubber boots.