

DYEING PROCESS FOR POLYAMIDE YARN

AVCO-AUXILIARIES
FOR POLYAMIDE YARN DYEING



AVCOchem[®]

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AVCO-PAL AP34

INTRODUCTION

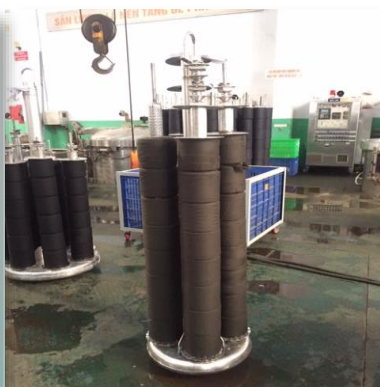
- ✓ AVCO-PAL AP34 is amphoteric levelling agent.
- ✓ AVCO PAL AP34 has an affinity to dye-sites of the polyamide fiber and overcome barriness problem when dyeing with and metal-complexdyes.

APPLICATION

AVCO KEY PRODUCTS

1. AVCO-PAL AP34
2. AVCO-CID LPH
3. AVCO-FIX NRC
4. AVCO-GEN TFA
5. AVCO-BIOLUZE MAX HC

TYPE OF DYE	% ON WEIGHT OF FABRICS		
	PALE	MEDIUM	DARK
ACID DYES (GOOD MIGRATION)	1.0 – 1.5 g/l	1.0 – 2.0 g/l	1.0 g/l
ACID DYES (LOW MIGRATION)	1.0 – 2.0 g/l	1.0 – 1.5 g/l	1.0 g/l
METAL COMPLEX DYES		1.0 – 1.5 g/l	1.0 g/l



AVCO-CID LPH

INTRODUCTION

- ✓ AVCO-CID LPH is an high concentrate acid donor which generates, very slowly, acidity upon heating up during the dyeing process.
- ✓ During the hydrolytic process the organic acid produced is lowering the pH of the solution down to 4-5, which is needed for the optimal exhaustion of the dyes.

PERFORMANCE

1/ pH soft water: 7.0

	pH cold	pH 70c	pH 95c after 5 mins	pH 95c after 30 mins
0.7 g/l	6.5	5.95	5.35	5.10
1.5 g/l * 0.2 g/l sod. Bicarbonate	7.05	6.85	5.50	5.45

2/ pH soft water: 7.0

	pH cold	pH 70c	pH 95c after 5 mins	pH 95c after 30 mins
0.8 g/l	6.85	5.78	4.18	3.75

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AVCO-FIX NRC

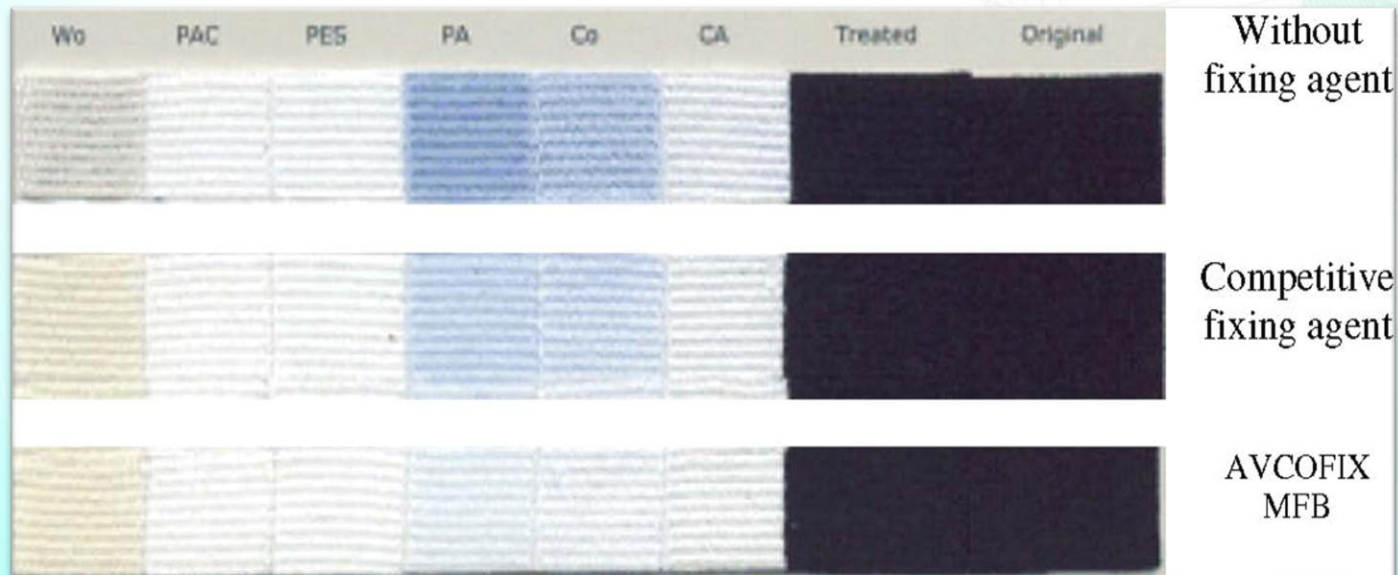
INTRODUCTION

- ✓ AVCO-FIX NRC is an after treatment agent to improve the washing fastness of polyamide microfiber dyed or printed with acid dyestuffs.
- ✓ Excellent fixing agent for polyamide fabric printed with acid dyes.

PERFORMANCE

Fastness ISO-C06 at 50°C.

From the above fastness results at 50°C it is clearly seen that AVCO-FIX NRC is superior to the other fixing agents existing in the market. Dyeing is with 4% navy metal complex dye.



AVCO KEY PRODUCTS

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AVCO-GEN TFA

INTRODUCTION

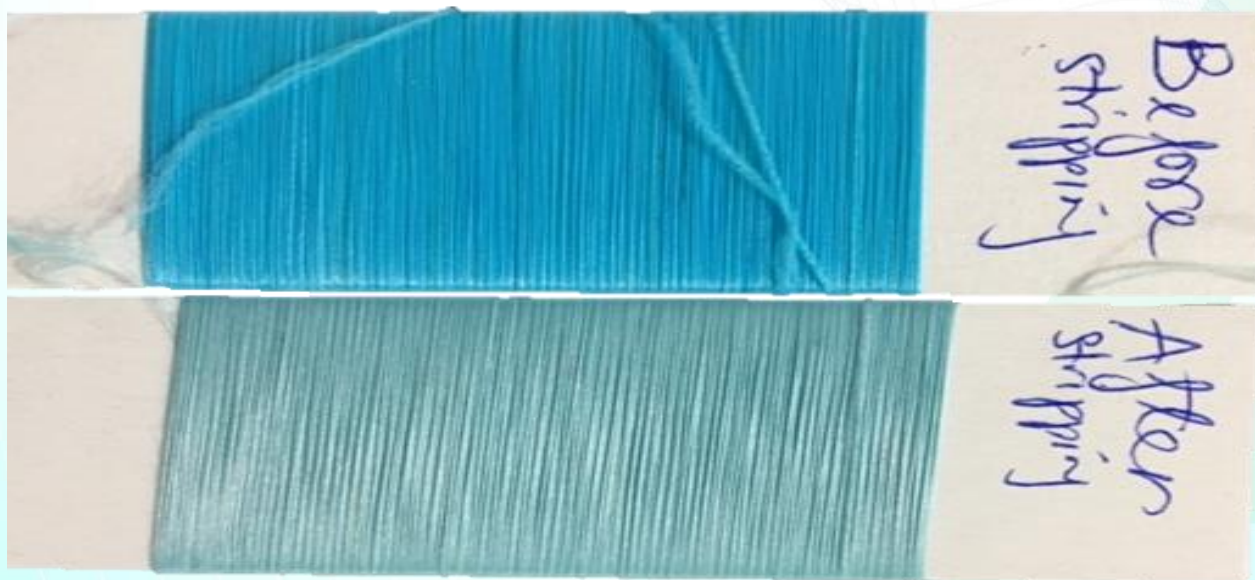
- ✓ AVCO GEN TFA is a levelling and stripping agent with weakly cationic nature with affinity to acid dyestuff.
- ✓ AVCO GEN TFA can be used in combination with anionic levelling agent such as AVCO-PAL AP34 in order to overcome birriness.

PERFORMANCE

Stripping off process: run at 98°C for 60 mins, drop batch and rinse with water, do neutralize and redye.

AVCO KEY PRODUCTS

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AVCO-BIOLUZE MAX HC

INTRODUCTION

- ✓ AVCO-BIOLUZE MAX HC is a nonionic surfactant composed of a blend of emulsifiers and detergents.
- ✓ AVCO-BIOLUZE MAX HC is very good soil suspending properties, which can prevent any re-deposition of soil on dyed fabric through all dyeing cycle.

AVCO KEY PRODUCTS

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SUMMARY

- ✓ Full products for the production line with the high efficiency and best economic benefits compared with the same kind of products.
- ✓ Consistent quality of product, thanks to strictly quality control processes.
- ✓ Easy use, good system stability.
- ✓ All products are eco-friendly, bio-degradable and approved by most severe International Standards.
- ✓ Good performance, suitable with all kinds of batch dyeing machine such as Jet, Jigger, Winch, Beam, Package dyeing machine.

All products are ECO FRIENDLY biodegradable and approved by most severe international standards.



The background features a large, stylized, light green 'A' shape on the right side. Overlaid on this and the rest of the page are several sets of thin, wavy, blue and green lines that create a sense of motion and depth. The overall color palette is a mix of light blue, teal, and white.

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