

# AVCO-BIOLUZE MAX HC

## LOW FOAMING DETERGENT AND EMULSIFIER

AVCO-BIOLUZE MAX HC is a nonionic surfactant composed of a blend of emulsifiers and detergents. The product has low foaming properties even in boiling bleaching bath.

AVCO-BIOLUZE MAX HC can be used as a scouring agent, bleaching and dyeing auxiliary for preparation and dyeing of fibres, hanks, packages and fabrics made from cellulosic and synthetics fibres.

AVCO-BIOLUZE MAX HC is a multifunctional detergent with wetting, emulsifying and dispersing properties. It is very effective for removing silicone and hydrocarbon lubricants from textiles.

AVCO-BIOLUZE MAX HC is recommended for pre-treatment processes in high speed jets and in high speed continuous ranges.

AVCO-BIOLUZE MAX HC is composed of biodegradable ingredients with no potential for bio-accumulation, and with no evolution of toxic compounds during biodegradation.

### SPECIFICATION:

<b>Appearance</b>	White, opaque liquid, slightly viscous.
<b>Chemical nature</b>	Blend of alkoxyated surfactants and defoamers
<b>Ionic activity</b>	Nonionic
<b>pH (1% aqueous solution)</b>	6-8
<b>Solubility</b>	Emulsifiable in water in all proportions
<b>Compatibility</b>	Compatible with nonionic, cationic and anionic dyestuffs and auxiliaries.
<b>Storage</b>	Becomes viscous at freezing temperatures, fully usable after thawing. Shelf life is at least 12 months.

### PROPERTIES & USES:

1. Excellent detergency, wetting, emulsifying and dispersing properties.
2. Good soil suspending properties, which can prevent any re-deposition of soil on dyed fabric through all dyeing cycle.
3. Very good emulsifier towards oils and lubricants which contained in raw fabrics and yarns. Highly recommended for removing texturizing oils , knitting oils, "sulzer" loom oils and silicone lubricants from all kind of fibres.

## Technical - Information

4. Stable to high temperature, even at H.T. conditions.
5. Very low foaming, recommended for jet machines.
6. Good stability towards electrolytes as used in cotton bleaching and dyeing.
7. AVCO-BIOLUZE MAX HC is very versatile. Due to its excellent detergency it can be used in many wet processes such as scouring, bleaching, dyeing, soaping etc.

### APPLICATION:

Due to its wide versatility, AVCO-BIOLUZE MAX HC has a number of important uses for scouring and dyeing as follows:

#### I. Cotton and blends:

AVCO-BIOLUZE MAX HC is recommended for all types of preparation and bleaching processes of textiles composed of cotton and blends with synthetics.

Following are dosage recommendation for various processes:

♦ Alkaline pre-treatment	1.0 - 2.0	g/l
♦ Pre - scouring	1.0 - 2.0	g/l
♦ Bleaching	1.0 - 2.0	g/l
♦ Dyeing	0.5 - 1.0	g/l
♦ Scouring knits containing spandex/lycra	1.0 - 2.0	g/l

#### II. Peroxide bleaching of cotton and cotton blends

1. Fill machine with water and add chemicals:

AVCO-BIOLUZE MAX HC	1.0 - 2.0	g/l
AVCOS-LIP LB (antirecreasing agent)	1.0 - 2.0	g/l

2. Load fabric and treat for 5-10 minutes.
3. To the same liquor add the bleaching auxiliaries, and start the bleaching process.

Use the following recipe for full bleach:

AVCO-STABILIZER HSF	0.5 - 1.5	g/l
H <sub>2</sub> O <sub>2</sub> (50%)	6.0 - 8.0	g/l
AVCO-LUX CBA 100	0.5 - 1.0	%

4. Treat for 45-60 minutes at 90-95°C, followed by hot and cold rinse.

#### III. Polyester and blends

AVCO-BIOLUZE MAX HC can be used in jet dyeing machines as one bath scour/dye auxiliary. A typical cycle for bulked polyester piece goods is as follows:

1. Load the machine, run for 3-5 minutes to remove water soluble and emulsifiable matter and drop the bath.

## Technical - Information

2. Add a sequestering agent ( AVCO-TRYL HPH) and adjust the bath to pH 5-5.5.
3. Raise temperature to 40°C, add AVCO-BIOLUZE MAX HC (0.5-1 g/l) and a levelling agent (AVCO-NAL PLD).
4. Increase temperature to 60° C and add the dyestuffs.
5. After circulating, raise temperature to 125-130° C and dye to shade.

### IV. Polyamide

AVCO-BIOLUZE MAX HC can be used effectively for the scour/dyeing of bulked polyamide stockings and other polyamide articles.

#### Dosage recommendation:

- ◆ Scour/dyeing bulked polyamide hosiery  
Use: 1.0-2.0 g/l
- ◆ Scour/dyeing micro fibre knits in jet machines  
Use: 1.0-2.5 g/l.

### V. Polyamide blends with spandex/lycra

AVCO-BIOLUZE MAX HC is highly recommended for removing silicone lubricants and knitting oils from polyamide knits containing high percentage of spandex yarns.

1. Fill machine
2. Add the chemicals:

AVCO-BIOLUZE MAX HC	1.0 – 2.0	g/l
AVCO-SLIP PAS	1.0 – 2.0	g/l
AVCO-TRYL PN	1.0 – 2.0	g/l
SODA-ASH	1.0 – 2.0	g/l

3. Load fabric and treat at 80-90°C for 20-40 min.
4. Drop bath and rinse hot and cold.

### VI. Pre treatment of cotton knits containing spandex/lycra

AVCO-BIOLUZE MAX HC	1.0 – 2.0	g/l
AVCO-SLIP PAS	1.0 – 2.0	g/l
AVCO-TRYL PN	1.0 – 2.0	g/l
SODA-ASH	2.0 – 4.0	g/l

Treat at 90-95°C for 20-40 min.

## ***Technical - Information***

### **VII. Bleaching cotton knits containing spandex / lycra**

Treat fabrics with the following recipe:

AVCO-BIOLUZE MAX HC	0.5 – 2.0	g/l
BLANKINOL VLF	3.0 – 4.0	g/l
AVCO-SLIP LB	1.0 – 2.0	g/l
PEROXIDE(50%)	3.0 – 4.0	g/l

Treat at 95-98°C for 45 min.