

AVCO-BIOLIT LF-HC

CONCENTRATED LOW FOAMING SCOURING AGENT

AVCO-BIOLIT LF-HC is an highly concentrated surfactant composed of a blend of emulsifiers and wetting agent. The product has low foaming properties even in boiling bleaching bath. It can be used as a wetting agent, bleaching and dyeing auxiliary for preparation and dyeing of fibres, hanks, packages and fabrics made from cellulosic and synthetic fibres. It is a multifunctional detergent with wetting, emulsifying and dispersing properties. It is recommended for pre-treatment processes in high speed jet machines and in high speed continuous ranges.

AVCO-BIOLIT LF-HC is composed of biodegradable ingredients with no potential for bioaccumulation, and with no evolution of toxic compounds during biodegradation.

SPECIFICATIONS:

Appearance	Almost colourless clear liquid, slightly viscous
Chemical nature	Blend of alkoxyated surfactants and solubilizers
Ionic type	Non-ionic
pH (10% aqueous solution)	6 - 8
Solubility	Emulsifiable in water in all proportions
Compatibility	Compatible with non-ionic, cationic and anionic dyestuffs and auxiliaries.
Storage	Becomes viscous at freezing temperatures, fully usable after thawing. Shelf life is at least 12 months.

PROPERTIES & USES:

1. Excellent wetting, emulsifying, cleaning and dispersing properties.
2. Good soil suspending properties, which can prevent any re-deposition of soil on dyed fabric during all dyeing cycle.
3. Improves very much the hydrophility and wicking properties of treated fabrics.
4. Stable to high temperature, suitable for dyeing 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-BIOLIT LF-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-BIOLIT LF-HC has a number of important uses for scouring and dyeing as follows:

1. Cotton and blends:

AVCO-BIOLIT LF-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	0.2 – 0.6 g/l
♦ Pre - scouring	0.2 – 0.6 g/l
♦ Bleaching	0.3 – 0.6 g/l
♦ Scouring knits containing spandex/lycra	0.4 – 0.8 g/l

2. Peroxide bleaching of cotton and cotton blends

- a) Fill machine with water and add chemicals:

AVCO-BIOLIT LF-HC	0.3 – 0.6 g/l
AVCO-SLIP AND (Bath lubricant)	1.0 - 2.0 g/l

- b) Load fabric and run for 5-10 minutes.

- c) 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 - 1.0 g/l
H ₂ O ₂ (50%)	6.0 - 8.0 cc/l
Soda caustic (50%)	2.0 - 3.0 cc/l
AVCO-LUX CBA-N	0.5 - 1.0 %

- d) Run for 45-60 minutes at 90-95°C, followed by hot and cold rinse.

3. Pretreatment on continuous range:

a) Desizing with enzyme:

AVCO-ZIM 1210	: 3 - 8 g/l
AVCO-BIOLIT LF-HC	: 2 - 4 g/l
Steam 102°C – 20 mins and hot wash	

b) Scouring and bleaching :

NaOH(50%)	: 60 – 100 g/l
AVCO-BIOLIT LF-HC	: 4 – 6 g/l
H ₂ O ₂ (50%)	: 20 – 50 g/l
AVCO-STABILIZER HSF	: 4 – 10 g/l
Steam 102°C – 20 mins and hot wash	