

Technical - Information

AVCO-SUPRABLEACH AI02

LOW-FOAMING "ONE-SHOT" PEROXIDE BLEACHING AUXILIARY

AVCO-SUPRABLEACH AI02 is an formulated compound, designed to obtain high whiteness degrees of cellulosic fabrics and yarns.

AVCO-SUPRABLEACH AI02 enables one step peroxide bleaching with high degree of whiteness and excellent absorbency of the bleached textiles.

AVCO-SUPRABLEACH AI02 is a balanced blend of complexing agents, low foaming detergents, stabilizers and activators, formulated to offer the textile dye-house a complete "one shot" bleaching auxiliary. AVCO-SUPRABLEACH AI02 is environmentally acceptable, complies with Oekotex standard.

SPECIFICATIONS:

Appearance	Slightly yellowish, clear liquid.
Chemical nature	Aqueous compound of nonionic surfactants, phosphonates and polyhydroxy magnesium complexes.
Ionic type	Anionic/non-ionic.
pH (0.1%)	3.0 – 4.0
Solubility	Miscible with water at any ratio.
Compatibility	<ol style="list-style-type: none"> 1. Is not compatible with cationic products. 2. Can be used with all chemicals normally applied in peroxide bleaching.
Storage	<p>Store product in closed original packages at temperature range of 5 – 40°C.</p> <p>When properly stored it is stable for at least 12 months.</p>

PROPERTIES & USES:

1. "One-Shot" product that can replace all surfactants, stabilizers and sequestering agents normally used in cotton and viscose hot bleaching processes.
2. Excellent whiteness and absorbency of the bleached fabric.
3. AVCO-SUPRABLEACH AI02 has very good wetting effect and detergency properties towards all kinds of dirt and contamination.
4. The product has good complexing and dispersing properties towards Ca and Fe ions.

Technical - Information

5. Less handling and weighing in the dye house. Saving of storage space.
6. Recommended for continuous and discontinuous peroxide bleaching processes.
7. Maximum reproducibility.

APPLICATION:

BLEACHING RECIPES:

1. Half bleaching of cotton knits in jet machines

AVCO-TEX DAA	0.2 - 0.5	g/l
AVCO-SUPRABLEACH AI02	1.0 - 1.5	g/l
H ₂ O ₂ (50%)	2.5 - 3.0	cc/l
Caustic soda (50%)	2.0 - 2.5	cc/l

Run at 90 - 95°C for 30 minutes and drop bath.

Refill and treat at 80°C with 0.5 - 1.0 g/l AVCO-SAN LPD for 10 min.

Adjust pH to 6 – 7.

2. Full bleach of cotton knits in jet machines - short process

Treat the fabric with the following recipe:

AVCO-TEX DAA	0.2 - 0.5	g/l
AVCO-SUPRABLEACH AI02	1.5 - 2.0	g/l
Caustic soda (50%)	3.0	cc/l
H ₂ O ₂ (50%)	10.0 - 12.0	cc/l
AVCO-LUX BKR	0.8 - 1.0	%

Run at 110 - 120°C for 20 - 15 minutes. Cool down to 80°C and drop bath.

Rinse at 60°C and neutralize with 1 cc/l Acetic acid (60%).

*It is possible also to bleach at the boil for a longer time (45 – 60 minutes).

3. Super white of cotton and cotton/lycra knits in jet machines

3.1 Step no. 1:

Treat the fabric with the following recipe:

AVCO-TEX DAA	0.2 - 0.5	g/l
AVCO-SLIP RF	0.5 - 1.0	g/l (optional)
AVCO-TRYL EX	1.5 - 2.0	g/l
AVCO-SUPRABLEACH AI02	2.0	g/l
H ₂ O ₂ (50%)	10.0 - 12.0	cc/l

Treat at 80°C for 20 minutes.

3.2 Step no. 2:

Do not drop bath, add Caustic soda (50%) 3.0 cc/l to the same bath.

Heat up to 120°C and bleach for 20 minutes.

Technical - Information

Cool down to 80°C and drop the bath.

Rinse at 80°C for 10 min.

Rinse at 60°C and neutralize with 1 cc/l Acetic acid (60%).

3.3 Step no. 3:

Drop bath, refill and add the optical brightener:

Glauber salt	3	g/l
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AVCO-LUX BKR	0.8 - 1.0	%
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Treat at 70°C for 20 minutes and unload.

4. Continuous Peroxide bleaching processes

Apply 8 – 12 g/l AVCO-SUPRABLEACH AI02 in peroxide cold pad batch and in pad steam continuous bleaching processes.