T&T INDUSTRIES CORP.
台唐工業股份有限公司
TEL: 886-2-2506-4107 · 886-3-483-1666
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Taiwhite BAC

Fluorescent whitening agent for acrylic and modacrylic fibers.
Suitable for exhaust and pad application.

I. Properties

1. Appearance : pale brown liquid
2. Ionic activity : cationic
3. Main component : benzimidazole derivative
4. Storage : good storability
5. Fluorescent : Brilliant, bluish violet
6. Stability

Sodium chlorite bleach	very good
Peroxide bleach, pH< 6.5	very good
Reduction bleach, pH< 6.5	very good
hard water	very good
acids	very good
alkalis	not stable

(Note for application in bleach baths)

7. Fastness properties

Light	4-5
Water	5
Washing 50℃	5
Chlorite bleach	5
Peroxide bleach	5
Reducing agents	5

II. Features

1. Excellent fastness
2. Very good build-up and levelling properties.
3. It can be used together with cationic products.

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III. Application

1. By exhaustion from acid baths, with or without sodium chlorite and from acid peroxide bleach liquors.

2. Continuously by pad steam, acid, and pad-roll methods.

Dissolving/ diluting

Taiwhite BAC is dissolved by pouring on about 10 times its weight of hot water and if necessary, boiling up briefly with live steam. Only water that has been slightly acidified should be used.

Solubility at boil about 150 g/l
in cooled liquor about 75 g/l

Stock solutions should be kept away from light.

Required amount

	Taiwhite BAC
Exhaustion	0.25~1.50 %
Padding	5~15 g/l
(liquor pick-up 70~90 %)	

Recommended recipe

Exhaustion

Taiwhite BAC is applied from acid baths, with or without sodium chioride, uptake depending on temperature and pH. The best pH range is 3-4. The very good levelling property of Taiwhite BAC is attainable on equipment with efficient liquor circulation. The good levelling property is also attainable after the goods entered at elevated temperatures.

Fluorescent whitening in the chlorite bleach

0.25~1.50%	Taiwhite BAC
1.0~2.0 g/l	sodium chlorite 80%
0.8~2.4 g/l	buffer salt
1.0~3.0 g/l	sodium nitrate
0.8~1.0 g/l	oxalic acid

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Lowering the pH to activate the chlorite bleach still further does not impair the whitening effect of Taiwhite BAC.

Liquor ratio	10:1~40:1
Enter goods	at 40~80℃
Raise temperature	over 30 min. to the boil
Treat	30~40 min. at the boil
Cool	
Rinse	
Antichlor (if required)	

Taiwhite BAC can also be applied in conjunction with acid peroxide bleaching and reduction bleaching.

Fluorescent whitening in an acid bath

0.25~1.50 %	Taiwhite BAC
0.8~1.0 g/l	oxalic acid
Liquor ratio	10:1~40:1

Procedure

see " **Fluorescent whitening in the chiorite bleach**" (excluding antichlor treatment)

Correcting unlevelness

Slight unlevelness can be largely corrected by bleaching in a weak acid bath with sodium chlorite or treating with a boiling acid bath and simultaneously re-whitening with 0.1~0.2 % Taiwhite BAC.