

THREETEX™ EBF 250%

Threetex EBF 250% is fluorescent whitening agent with neutral white color shade for polyester, acetate, triacetate fibers which needed good whiteness. Especially it is suitable for simultaneous application in chlorite bleaching.

1. Special properties

- Suitable for both exhaust and continuous processes.
- Neutral white color shade after dyeing.
- Very good light fastness.
- Highly stable to alkaline discharging agent.
- Development and fixation at low temp.
- Very stable to all bleaching process.

2. General properties

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|----------------------|------------------------|
| • Appearance | Snow white liquid |
| • Color index No. | 185 |
| • Chemical structure | Benzoxazole derivative |
| • Ionic character | Nonionic |
| • pH (1% solution) | 7 ~ 8 |
| • Specific gravity | Approx 1.05 |

3. Storage stability

Threetex EBF 250% is stable when properly stored in closed containers at 20°C.
The product is sensitive to cold below 0°C and sensitive to heat above 40°C.

TECHNICAL DATA SHEET

4. Stability

Hard water	Stable
Peroxide	Stable
Reducing agent	Stable
Chlorite	Stable
Alkaline	Stable
Acid	Stable

5. Fastness properties

			PES	PES/Cotton
Light (KS K ISO 105- B02)			6~7	6
Washing (KS K ISO 105-C06)	40°C	Deformation	5	5
		Migration	5	5
	95°C	Deformation	5	5
		Migration	4	4
Sublimation (KS K0651)	30s / 180°C		4~5	4
Perspiration (KS K ISO 105-E04)	Alkali		4~5	4~5
	Acid		4~5	4~5

6. Application

1) Polyester and Polyester/Cellulose

A. Dyeing after scouring and bleaching (Two bath)

	PES	PES / Cotton (50:50)
Threetex EBF 250%	0.2 ~ 0.8%	0.1 ~ 0.4%
pH(Acetic acid)	5 ~ 7	7
Dispersing agent	0.5 ~ 1.0g/L	-
Carrier	-	1 ~ 2g/L
Liquor ratio	5:1 ~ 20:1	5:1 ~ 20:1
Temp/Time	95 ~ 130°C / 30~60min	100°C /30 ~ 60min

B. One bath with scouring and bleaching agents (In case of PES / Cotton(50:50))

	Bleaching & Dyeing
Threetex EBF 250%	0.1 ~ 0.4%
Threephor BYB	0.3 ~ 0.5%
Leveling agent	0.5 ~ 1.0g/L
Scouring agent	0.5 ~ 1.0g/L
Hydrogen peroxide (35%)	4.0 ~ 8.0g/L
Stabilizer (Silicate)	1.0g/L
Sodium hydroxide (50%)	1.0 ~4.0g/L
Liquor ratio	1:10
Temp/Time	95 ~ 120°C / 40 ~ 60min
Washing	Sufficient washing

C. Padding

	PES	PES/Cotton(50:50)
Threetex EBF 250%	4.0 ~ 16 g/L	2.0 ~ 8.0 g/L
Threephor TOP	-	3.0 ~ 7.0 g/L
Glyoxal resin	-	100g/L

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Silicon softening agent	-	10 ~ 40g/L
Fatty acid softening agent	-	10 ~ 15g/L
Antistatic agent	-	10 ~ 40g/L
Catalyst agent	-	Depends on resin
Pick up	40 ~ 80%	70 ~ 90%
Dry & Cure	180 ~ 190°C / 20 ~ 60sec	180 ~ 190°C / 10 ~ 40sec

2) Diacetate & Triacetate

A. Exhaust process

	without bleach	with bleach
Threetex EBF 250%	0.4 ~ 0.8 g/L	0.4 ~ 0.8 g/L
Sodium Chlorite (25%)	-	3.0 ~ 8.0g/L
Sodium nitrite	-	1.0g/L
Chlorite stabilizer	-	1.0g/L
pH	5 ~ 7 (Formic acid)	3 ~ 4 (Formic acid)
Liquor ratio	10 ~ 20 : 1	10 ~ 20 : 1
Temp/Time	70~80°C (Diacetate) 95~130°C (Triacetate) 30~60min	70~80°C (Diacetate) 95~130°C (Triacetate) 30~60min
Washing		Sufficient washing

B. Padding

Threetex EBF 250%	4.0 ~ 16 g/L
Pick up	About 60%
Dry & Cure	180 ~ 190°C / 30 ~ 60sec

TECHNICAL DATA SHEET

* The information give in here is based on the present state of our knowledge, but any conclusion and recommendations are made without liability on our products under their own conditions and their own requirement.

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