

## THREETEX™ PMS

**Threephor PMS** is fluorescent whitening agent with bluish white color shade for polyester and its fiber blends which needed good whiteness. Especially it is suitable for continuous and exhaust process.

### 1. Special properties

- Suitable for both exhaust and continuous processes.
- Bluish white color shade after dyeing
- Good fastness and stability, in particular heat stability is excellent.
- Compatible with most finishing components and catalysts.
- Very high stability to alkali and peroxide.

### 2. General properties

- |                      |                          |
|----------------------|--------------------------|
| • Appearance         | Blue grey liquid         |
| • Color index No.    |                          |
| • Chemical structure | Styrylbenzene derivative |
| • Ionic character    | Nonionic                 |
| • pH (1% solution)   | 7 ~ 9                    |
| • Specific gravity   | Approx 1.05              |

### 3. Storage stability

**Threetex PMS** 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	Unstable
Alkaline	Stable
Acid	Stable

### 5. Fastness properties

TEST ITEM / METHOD	--	--	PES	PES/Cotton
Light (KS K ISO 105- B02)	--	--	5~6	5
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) Dyeing after scouring and bleaching (Two bath)

	<b>PES</b>	<b>PES/Cotton(50:50)</b>
<b>Threetex PMS</b>	less than 0.8%	less than 0.4%
pH(Acetic acid)	5 ~ 7	7
Dispersing agent	0.5 ~ 1.0 g/L	-
Carrier	-	1 ~ 2 g/L
Liquor ratio	5:1 ~ 20:1	5:1 ~ 20:1
Temp/Time	120~130°C / 20~60min	100°C /40~ 60min

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

	<b>Bleaching &amp; Dyeing</b>
<b>Threetex PMS</b>	less than 0.4%
Threephor BYB	0.3 ~ 0.5%
Leveling agent	0.5 ~ 1.0 g/L
Scouring agent	0.5 ~ 1.0 g/L
Hydrogen peroxide (35%)	4 ~ 8% (owf)
Stabilizer (Silicate)	1.0 g/L
Sodium hydroxide (50%)	1.0 ~ 2.0g/L
Liquor ratio	1:10
Temp/Time	95~100°C / 40~60min
Washing	Sufficient washing

### 3) Padding

	<b>PES</b>	<b>PES/Cotton(50:50)</b>
<b>Threetex PMS</b>	0.5 ~ 4.0 g/L	0.5 ~ 2.0 g/L
Threephor TOP	-	3.0 ~ 7.0 g/L
Glyoxal resin	-	100g/L
Silicon softening agent	-	10 ~ 40 g/L

## TECHNICAL DATA SHEET

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Fatty acid softening agent	-	10 ~ 15 g/L
Antistatic agent	-	10 ~ 40 g/L
Catalyst agent	-	Depends on resin
Pick up	40 ~ 50%	40 ~ 50%
Dry & Cure	180~200°C / 20~60sec	180~190°C / 20~60sec

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