

# Products Information

## Color Speckle for Laundry detergents


### 1. Introduction

Color speckles are designed fully colored and non-staining materials.

- reduce or eliminate staining on most hard surfaces, fabrics and equipments
- concentrated colors be cleaned up with cold water.

Color speckles have high storage stability of photocatalyst , DTI(Dye- Transfer-Inhibitor) due to alkaline environment and fast dispersing granules even in cold water reduces spotting issues, making it suitable for hand washing.

### 2. Products List (classification by core material)

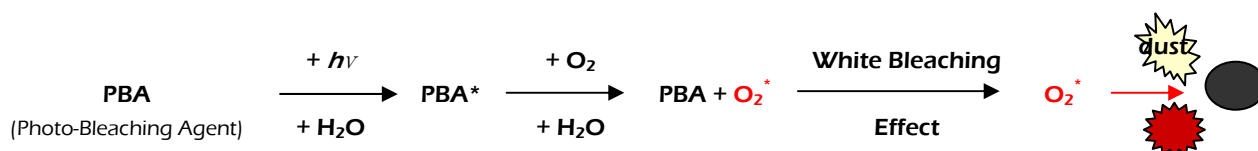
Products Group	Properties			Features		Additional Option				Application	
	Bulk density(g/ cm <sup>3</sup> )	Ph[25℃] (0.1%sol'n) sol'n	Particle size(Min. 95%)	Color transfer		Foam control	Photo bleach	Color coating ability	Value up products	Recommendation(%)	Sort of color (sample)
				Pigment	Dye						
PCC series	0.70~0.88	10.0~11.0	16~60	◎	●	○	◎	●	◎	0.5 ~ 2.0	
CS series	1.07~1.17	6.0~8.0	16~40	◎	●	○	○	◎	●		
S series	0.85~1.15	10.5~12.5	16~60	◎	●	○	○	○	●		

(Note: ◎= Good suitable, ●= Suitable, ○= common )

### 3. Additional option for laundry detergents

#### 3.1 Photo-bleach (Photocatalyst) effect mechanism

When Oxy bleach + Photo-bleach, It shows powerful cleaning effects, remove stains and 99.9% sterilizing by double bleach system



#### 3.2 Dye-Transfer Effects

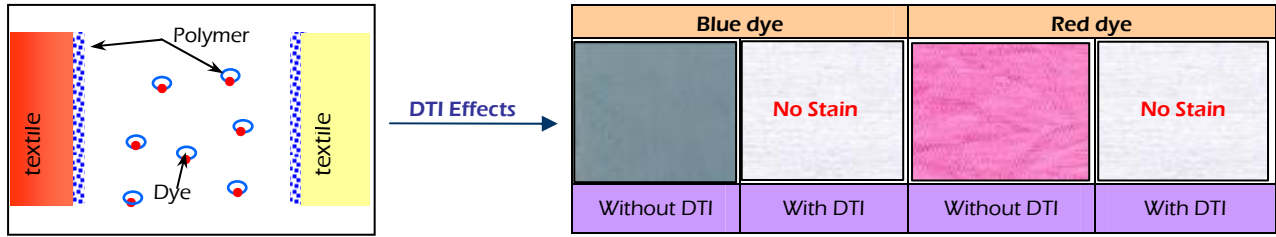
##### 3.2.1 What is the DTI (Dye-Transfer-Inhibitor) polymer?

It is the agent which is preventing dye-transfer.

Stabilization of dyestuff in aqueous to prevent redeposition.

**3.2.2 DTI system test.**

1) DTI system (cotton: KS standard, KS K 0905)



2) DTI test

	Before	After	Result	Test Method	
PCC-BLUE			No stain	<b>Cotton standard:</b> KS standard (KS K 0905) Step 1 Gather color speckle sample 20g and mix detergent(no color speckle) Step 2 Sprinkle step 1.10g up on the cotton and spray water 90g. Step 3 Let them 30min under room temperature Step 4 Washing the cotton Step 5 Inspection for the color transfer to cotton from speckle Test condition All treatment and drying is performed under room temperature. (By the test condition, the result is able to change.)	
PCC-PINK			No stain		
PCC-GREEN			No stain		
PCC-ORANGE			No stain		

**4. Additional Information**

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**Packing** This product is available in 25kg, 500kg bag.