



SUNBARRIER F-68

Color fastness to light improving agent.

Technical Data Sheet

Introduction

SUNBARRIER F-68 is the improvement agent of colour fastness to light which blended benzotriazole type UV ray absorbent.

SUNBARRIER F-68 improves the fastness to light of silk or wool dyes with acid dyes and cotton or linen dyed with reactive dyes. Moreover, the UV cut effect is given to these fibers.

1. Features

- SUNBARRIERS F-68 can use on natural and synthetic fabrics.
- SUNBARRIERS F-68 is prevented yellowing for cotton and wool fabrics.
- The change in shade by treatment is extremely slight.
- SUNBARRIERS F-68 is given cellulosic fabric to durable UV cut effect.
- SUNBARRIERS F-68 is the prevention effect of colour fading to NOx gas for nylon fabric dyed by acid dyes.

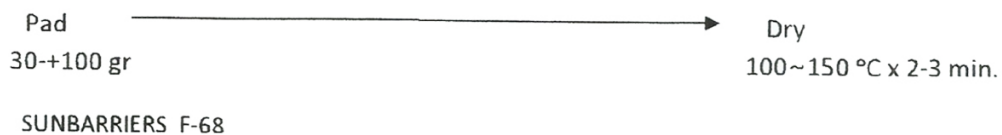
2. Physical / Chemical Properties

- 1) Appearance Pale yellowish liquid
- 2) Component..... Benzotriazol derivatives
- 3) Ionic..... Cationic
- 4) Ph Approx.6.0(1%soln.)
- 5) Solubility..... Emulsificatiton in water

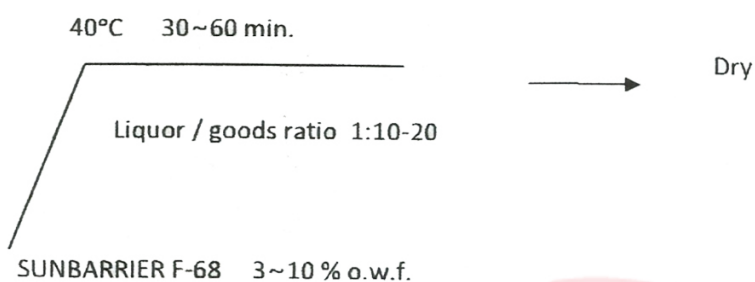
3. Application

The usage will be different as according the kind and form of material dyed, concentration and various kind dye used. But the Standard is a 3-10 % o.w.f.

1) Pad method



2) Dipping method



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Improving test of the color fastness to light

Testing fabric(Pale Blue) : Use 2 items of the finished fabric supplied our customer.

Treating condition : Desoftening by Multinol DN(2g/L) ——— SUNBARRIER F-68(X g/L) ——— Dehydrates and Dry

*Treats or 20min at 60°C *Treats for 20min. at 50°C

The color fastness to light (JIS L-0842)	
(1)	(2)
Without agent	
SUNBARRIER F-68 5%o. w. f.	
SUNBARRIER F-68 7%o. w. f.	
SUNBARRIER F-68 10%o. w. f.	



Improving test of the Light fastness to perspiration

Testing condition;

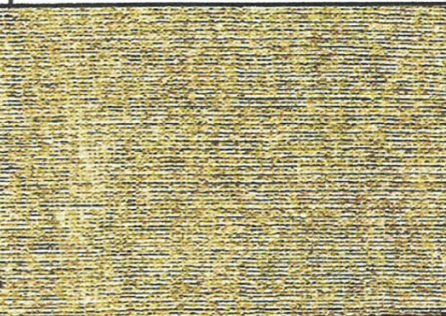
1. Test fabric: Provide 2 items of colored knit fabric from client.

2. Dyestuff name: Non open.

3. Improving agent: SUNBARRIER F-68 10% o.w.f.

* Dip testing piece into Alkali-perspiration liquid(JIS L-0848) for 30min,

Pick up 100% by squeeze roll, and Irradiated arc-source for 10hours at 63 degree.

		Light-fastness to alkali perspiration(JIS L-0848)	
		Irradiation	Non Irradiation
Test piece No1	Without agent		
	SUNBARRIER F-68 10% o. w. f.		
Test piece No2	Without agent		
	SUNBARRIER F-68 10% o. w. f.		

Improvement of the color fastness to perspiration for the dyed fabric of cotton

Presoaping: Multinol DN 2g/L 60°C x 15 min. SUNBARRIER F-68 50g/L pad-dry(120°C x 3 min.)	Acid perspiration 63°C x 10 hours		Alkali perspiration 63°C x 10 hours	
	Irradiation	Unirradiation	Irradiation	Unirradiation
Original fabric				
SUNBARRIER F-68 50g/L Direct treatment for Original fabric				
Presoaping by Multinol DN 2g/L				
Treat by a 50g/L SUNBARRIER F-68 after presoaping.				