

Technical Information

CR-Guard

CR-998F

CR-Guard Protector & Treatments for fabrics & Multi-purpose Super-Fluoro water & oil repellent

- Excellent durability
- Good softness
- PFOA- free, PFOS- free, APEO-free



CR-Guard ----- Water & oil repellent

CR-998F

POLY , NYLON , T/C , COTTON and Multi-purpose

INTRODUCTION

CR-998F is specialized super water & oil repellent softness and excellent durability for cotton & their blends and multi-purpose CR-998F is

- ① Specialized penetrating ,high bonding and softness and durability for cotton, nylon ,polyester & their blends
- ② CR-998F is compatible with other textile finishing
- ③ CR-998F is used to combine with BI-30 for high effect & super durability and low temperature treat..
- ④ PFOA, PFOS, APEO – all free grade.

TYPICAL PROPERTIES

· Appearance	:	Milky white emulsion
· Specific gravity (25 °C)	:	1.00±0.05
· Ionic type	:	Weak cationic
· pH	:	2 ~6
· Solubility	:	Easily dispersible in water
· Solid & Activity (%)	:	30±1

CR-998F

CHARACTERISTICS

1. 998F has a excellent durability against washing and dry cleaning
2. CR-Guard 998F endows an excellent water and oil repellent effect for all synthetic fiber, cotton and their blends or mixtures & multi-purpose.
3. 998F does not affect color fastness of dyed or printed fabrics..
4. 998F has excellent chemical and mechanical stability and good compatibility with kinds of textile finishing agents to be used together.
5. For high effect & super durability and low temperature treat.
It is used to combine with BI-30. Please refer to BI-30-TDS.

APPLICATIONS

Same as general finishing, just dilute and disperse by adding water to the desired concentration before use and the materials are padded, intermediate dried and cured or final set.

[Preparation method of padding bath] In case other penetrating agents, resins and finishing agents are to be used together.

- 1st Add a half quantity of total water at 20-30°C
- 2nd If necessary, add therein penetrating agents, resins and other finishing agents and stir enough.
- 3rd Dilute CR-Guard CR-998F with same quantity of water, add it and residual water is added to make the whole 100% and disperse evenly in the bath by agitating.

The quantity to be used should be adjusted in accordance with the desired performance.

EFFECTS

The effect of cloths treated with 998F is shown in the following

< Table 1 > Polyester

		998F		OTHER (A)		OTHER (F)		OTHER (H)	
%		1	2	1	2	1	2	1	2
Water Repellent	Initial	100	100	100	100	100	100	100	100
	H-10	90	100	50	70	0	50	0-	50
	H-30	70-	80-	0	50	0	0	0	0
Oil repellent		5	6	3	3	3	4	1	3

(Remarks : Home Laundry 10 times : H-10 Home Laundry 30 times : H-30)

* Treatment

- Pad 1 Dip 1 Nip
Pick up 40%
- Drying 110°C × 1 min.
- Curing 170°C × 1 min.

<Table 2 > Nylon / Rayon

		998F		OTHER (A)		OTHER (F)		OTHER (H)	
%		1	2	1	2	1	2	1	2
Water Repellent	Initial	100	100	80	100	80	90	80	100
	H-10	90	90+	50	70-	0	60	0	70
	H-30	60	70+	0	0	0	0	0	0

* Treatment

- Pad 1 Dip 1 Nip
Pick up 70%
- Drying 110°C × 2 min

- Curing 170°C × 2 min

<Table 3> Cotton

		998F			OTHER(A)			OTHER(F)			OTHER(H)		
%		2	4	6	2	4	6	2	4	6	2	4	6
Water Repellent	Initial	100	100	100	90	100	100	80	100	100	80	100	100
	H-10	90	90+	100	0	60	60	0	50	60	0	50	60
	H-30	70	80	90	0	0	60	0	50	50	0	0	50
Oil repellent		4	6	6	1	3	4	1	3	3	1	1	2

(Remarks : Home Laundry 10 times : H-10 Home Laundry 30 times : H-30)

* Treatment

- Pad 1 Dip 1 Nip
Pick up 65%
- Drying 110°C × 2 min
- Curing 160°C × 3 min
- Water repellent AATCC 22-1985 (water spray method)
- Oil repellent AATCC 118-1966 method

<Table 4> Polyester / Cotton (65/35)

		998F		OTHER (A)		OTHER (F)		OTHER (H)				
%		1	1.5	1	1.5	1	1.5	1	1.5			
Water Repellent	Initial	100	100	80+	100	90	100	80	90+			
	H-10	90	100	50	70+	60	80	0	60			
	H-30	60	70+	0	50	0	50	0	0			
Oil repellent		5	6	1	3	3	1	3	4	1	1	2

*** Treatment**

- Pad 1 Dip 1 NIP
Pick up 60%
- Drying 110°C × 2 min
- Curing 160°C × 2 min

CAUTION ON HANDLING

1. Avoid storage below 5°C and over 30°C and keep away from fire and sunlight.
2. Close the container tightly to prevent evaporation and entrance of foreign water.
3. 998F is almost non toxic to human body but it is recommended to protect eyes and skin from direct contact and avoid inhaling much vapor.
If contacted, flush with enough water.

The suggestion and data in this bulletin are based on the laboratory tests. Please note that they are offered in good faith, but with out guarantee for a commercial sale.