



REPEL FA-71C

(C6 Fluorocarbon Water and Oil Repellent)

Technical Information

FA-71C is based on C-6 fluoroalkyl compounds, which is fluorocarbon polymer emulsion, imparts excellent water, oil repellency and soft hand to all types of fabric substrates, especially for Nylon fabrics.

1. Performance Features

- FA-71C is used C-6 Fluoroalkyl Compounds, PFOA free (below limit detectable).
- FA-71C imparts excellent water and oil repellency to all types of fabrics made from natural and synthetic fibers.
- FA-71C imparts excellent durable through extended home laundering.
- FA-71C is nonflammable.

2. Typical properties

Appearance Off white or pale yellow emulsion
Ion Characteristics Weak cationic
pH 2.0-5.0
Specific gravity at 25°C (77°F)..... approach1.04

3. Shipping & Storage

Non-Red Label (Non-flammable Material)
FA-71C should be stored at a temperature between -5°C ~40°C

4. Safety/ Toxicology

Before using this product, please read the current FA-71C Material Safety Data Sheet and the precautionary statement on the product package. Follow all applicable directions.

5. Application guide for FA-71C

A) Standard recipe

<u>Substrate</u>	<u>Concentration</u>
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Polyester	20 - 40 g/L
Nylon	30 - 50 g/L

1 dipping & 1 nipping
Wet pick up : 30-90%
Dry and Cure : 130-170 °C

<u>Substrate</u>	<u>Concentration</u>
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Cotton	40 - 60 g/L
Polyester/cotton blend	30 - 50 g/L

1 dipping & 1 nipping
Wet pick up : 40-70%
Dry and Cure : 150-160 °C

B) Durable recipe for Polyester and Nylon

FA-71C	30-50 g/L
CL-324	5-10 g/L

1 dipping & 1 nipping
Wet pick up: 40-90%
Dry and Cure : 130-170 °C

C) Durable recipe for Cotton and Cotton/polyester blend

FA-71C	50-80 g/L
FI	10-15 g/L
SWO	5-10 g/L

1 dipping & 1 nipping
Wet pick up: 40-70%
Curing : 150-160 °C

Notes

- Maintain the pH of the pad bath in 3-7 to obtain the excellent water and oil repellency. If the pH is over 8, add acetic acid to adjust the pH of the bath.
- When a wetting agent is used, it must be thoroughly dissolved and diluted before FA-71C is added.

<Application conditions>

Fabric : (1) Nylon Taslon 70d
(2) Nylon 30d
(3) PET 75d peach skin
(4) PET 75d

Recipe : FA-71C 50 g/L
CL-324 10 g/L

Application : 1 dipping and 1 nipping

Wet pick up : (1) Nylon Taslon 55%
(2) PET peach skin 65%

Curing : 160 °C×2mins for Nylon, 120 °C×2.5 mins for PET

Washing : AATCC-135(40°C)→Tumble Dry

Results :

Results: AATCC 22 for water repellency; AATCC 118 for oil repellency

	Nylon 70d	Nylon 30d	PET 70d (peach skin)	PET 70d
HL0 WR/OR	100/5	100/5	100/5	100/5
HL10 WR/OR	80+/4	90+/3	100/4	90/4
HL20 WR/OR	80+/4	80+/2	100/3	90/4