

DANFIX-303

DANFIX-303 is a fixing agent to improve the wet fastness of reactive and direct dyeings and printings of cellulosic fibers. In spite of its high fixing ability DANFIX-303 can be easily stripped from dyeings, if necessary.

1. PROPERTIES

Appearance: Light yellow clear solution

Composition: Aqueous solution of specific cationic polymers

Ionicity : Cation

pH : 4-4.5 (10g/L)

Solubility : Easily can be diluted with cold water in every ratio

2. CHARACTERISTICS

- Improves the fastness to water, washing and acid hydrolysis.
- Only slight influence on the hue, the light fastness and the handle of dyeings.
- Exhibits excellent effect on both methods, exhaustion and continuous.
- Contains no formaldehyde.

3. APPLICATION

Well rinsed dyeings are treated as follows:

(Exhaustion)

DANFIX-303: 2-6%owf, Temp.: 40-60°C (104-140° F),

Duration: 15-20min.

(Continuous)

DANFIX-303: 5-30g/L, Temp.: 20-40°C (68-104° F)

Pad the dyeings, then squeeze and dry.

※Stripping (Defixation)

DANFIX-303 can be easily stripped from the dyeings.

-Soda ash (or Caustic soda: 30° Be): 5g/L (5cc/L)

-Nonionic penetrant (e.g. Scoural 400): 2-5cc/L

-Hydrogen peroxide (30%): 3cc/L

-Liquor ratio: 20:1

Boil at 80°C for 30min., then rinse with warm water.

4. FIXING EFFECT

Dyestuff (% owf)	Fixing agent	Change in hue	Washing *1			Hot water *2			Light	Chlorinated water	
										10mg/L	20mg/L
Kayarus Supra Red BWS (1)	non D-303	- 4-5	3 4-5	2 4-5	3-4 5	3-4 5	1-2 5	4 5	4 3-4	3 3-4	3 3
Kayarus Supra Grey CGL (3)	non D-303	- 4	3 4	2 4-5	3 5	3-4 5	1-2 5	3-4 5	4-5 4-5	3 4	2-3 3-4
Kayarus Supra Brown GTL (1)	non D-303	- 4-5	3-4 5	2-3 4	4-5 5	4 4-5	2-3 5	4-5 5	4 2-3	4 3	3-4 2-3
Kayarus Black B160 (4)	non D-303	- 4-5	4-5 5	1 3	3-4 5	5 5	1-2 5	3-4 5	4-5 4	4 3-4	3-4 3
Kayarus Supra Yellow GLS (3)	non D-303	- 5	4 5	3 4-5	4 5	4 5	2 5	3 5	5 5	4-5 4	4 3-4
Kayarus Turq. Blue GL (1)	non D-303	- 3-4	2 3-4	2-3 4	3-4 5	3 4-5	1-2 5	2-3 5	4-5 4	3 3	2-3 3

In *1 and *2: Left: Change in shade; Middle: Staining on cotton; Right: Staining on silk

【Fixing conditions】 DANFIX-303: 4%owf, 40°C-20min.

【Test items】

Washing fastness: JIS-L-0844 A-4 (Soap: 5g/L, Soda ash: 2g/L; 70°C/45min.)

Hot water fastness: JIS-L-0845 (60°C/20min.)

Light fastness: JIS-L-0842 (Carbon Arc Fade-O-Meter: 20hrs)

Chlorinated water fastness: JIS-L-0884 (Available chlorine: 20mg/L, 10mg/L)

5. CAUTIONS IN USING

- In sufficient rinsing before fixing treatment can impair the fastness properties.
- Avoid the mixing with anionic substances. (Precipitation may occur.)
- Don't fail to preliminary tests before industrial using.

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