

D-136

FABRIC SOFTENER

14% CONCENTRATION (COLD PROCESS)

GUIDELINE FORMULARY

DESCRIPTION

Domestic fabric softener
Ecological and biodegradable product
Good rewet ability
Anti-static effect, specially on synthetic fabrics
Process at room temperature

COMPOSITION

	%
TETRANYL® AT-1	16.5
Dye(s)	5.1
KAO Fragrance	1.1
Preservative	0.1
CaCl ₂ · 2H ₂ O (at 15%)	e.q
Deionized Water	Up to 100%

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Opaque viscous liquid	KCSA-258
pH (as it is):	2.5 -3.0	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	50 - 100	KCSA-227
SURFACTANT ACTIVE MATTER (%):	Approx. 14	KCSA-246
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Heat up water to 30°C.

Agitation is required along the whole process.

Add dye(s) to the water and wait until complete homogenization.

Cool down mixture to room temperature.

Add TETRANYL® AT-1 (previously melted) and stir for 20'.

Adjust viscosity with $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ and stir 10' until complete homogenization.

Add perfume and preservative, stir after each addition until complete homogenization.

Unload after 15' of stirring.

COMMENTS

Viscosity depends on: Process temperature; Agitation type, time and speed; fragrance (type and quantity).

Dye needs to be compatible with cationic surfactants. Normally blue color is used.

It is always advised to use a preservative (compatible and stable)

COMPONENTS

TETRANYL® AT-1 (tallow esterquat, ≈ 85% a.m.): cationic character. Product specially designed to obtain ecological fabric softeners. Easy to handle.

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Ref.

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