



Diamond
Diamond Overseas Trading Co

FABRIC SOFTENER FORMULATIONS BY KAO



Kao Corporation, S.A.

Member of Kao Chemicals Europe

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KCE REFERENCE : D-104

FABRIC SOFTENER

17% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics
- Process temperature between 30°C and 35°C approx.

COMPOSITION

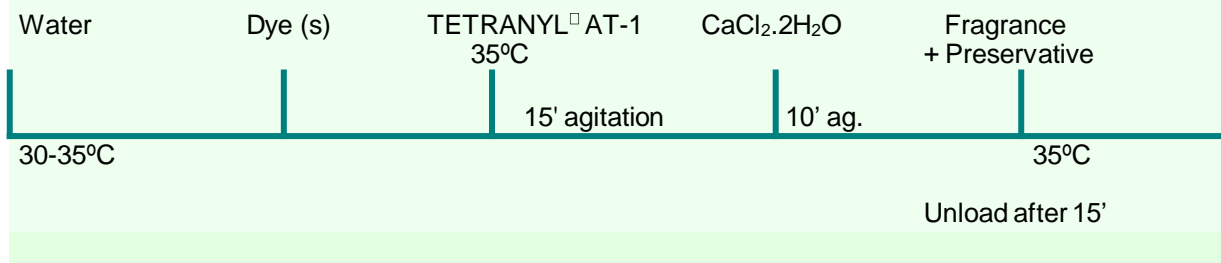
	%
TETRANYL [□] AT-1	20.0
Fragrance	1.1
Dyes (1 0/00 sol. in water)	5.1
CaCl ₂ .2H ₂ O (at 15%)	<input type="checkbox"/> 1.5 (viscosity adjust)
Preservative	0.1
Deionized water	Up to 100%

TECHNICAL SPECIFICATIONS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 - 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 - 100	KCSA-227
ACTIVE MATTER (%) :	<input type="checkbox"/> 17	KCSA-178

KCE REFERENTE : D-104

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on :
 - Process temperature
 - Agitation type, time and speed
 - Added fragrance (type and quantity)
 - Quality of water
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

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

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KCE REFERENCE : D-082

FABRIC SOFTENER

5% active

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics
- Process temperature between 20°C and 30°C approx.

COMPOSITION

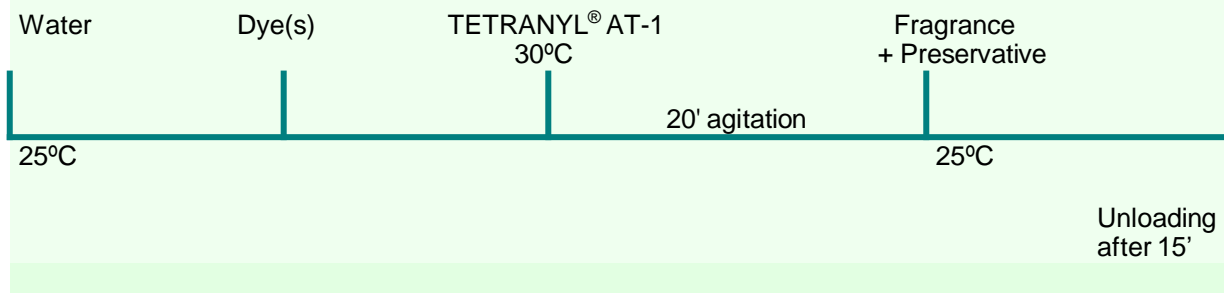
	%
TETRANYL [□] AT-1	5.9
Fragrance	0.3
Dyes (1 ‰ sol. in water)	1.7
Preservative	0.1
De-ionized Water	Up to 100%

TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	100 – 200	KCSA-227
ACTIVE MATTER (%) :	□5	KCSA-178

KCE REFERENCE : D-082

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: 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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KCE REFERENCE : D-136

FABRIC SOFTENER 14% concentration

DESCRIPTION

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

COMPOSITION

	%
TETRANYL [□] AT-1	16.5
Fragrance	1.1
Dyes (1 ⁰ / sol. in water)	5.1
CaCl ₂ .2H ₂ O (at 15%)	e.q. (viscosity adjust)
Preservative	0.1
Deionized Water	Up to 100%

TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100	KCSA-227
ACTIVE MATTER (%) :	≈ 14	KCSA-178

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KCE REFERENCE : D-134

ACID FABRIC SOFTENER 5% concentration

DESCRIPTION

- Domestic fabric softener
- Removes residual alcalies
- Anti-static effect, especially on synthetic fabrics
- Process at room temperature

COMPOSITION

	%
QUARTAMIN® TH-V	10.0
PHOSPHORIC ACID at 85%	11.8
Fragrance	0.3
Dequest 2010	0.1
Dyes (1 ‰ sol. in water)	1.7
Deionized Water	Up to 100%

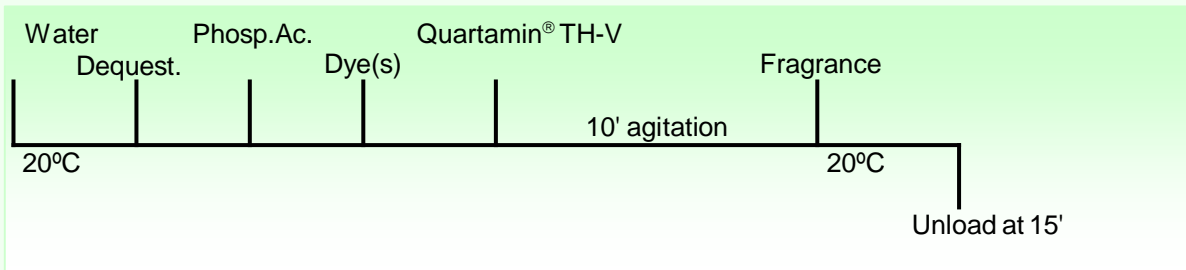
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Transparent liquid	KCSA-258
pH (100%) :	< 1.5	KCSA-014
VISCOSITY (cPs, 20°C) :	< 20	KCSA-227
ACTIVE MATTER (%) :	≈ 5	KCSA-178



KCE REFERENCE : D-134

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Appropriate warning should be taken during the manufacturing process of the softener due to the dangerous characteristics of the phosphoric acid.
- In order to avoid stability and decomposition problems, the fragrances and dyes must be stable under acidic conditions.

COMPONENTS

QUARTAMIN® TH-V (steartrimmonium chloride , ≈ 50% a.m.): cationic character. Conditioning and anti-static surfactant. Specially advised for clear fabric softeners.

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KCE REFERENCE : D-109

ACID FABRIC SOFTENER 5% concentration

DESCRIPTION

- Domestic fabric softener
- Removes residual alcalies
- Product with disinfecting and bleaching effect
- Anti-static effect, especially on synthetic fabrics
- Process at room temperature

COMPOSITION

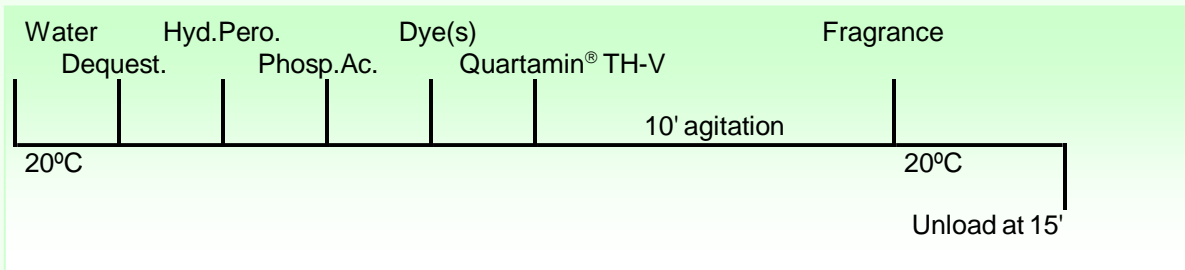
	%
QUARTAMIN® TH-V	10.0
HYDROGEN PEROXIDE at 35%	8.5
PHOSPHORIC ACID at 85%	11.8
Fragrance	0.3
Dequest 2010	0.1
Dyes (1 ‰ sol. in water)	1.7
Deionized Water	Up to 100%

TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Transparent liquid	KCSA-258
pH (100%) :	< 1.5	KCSA-014
VISCOSITY (cPs, 20°C) :	< 20	KCSA-227
ACTIVE MATTER (%) :	≈ 5	KCSA-178

KCE REFERENCE : D-109

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Appropriate warning should be taken during the manufacturing process of the softener due to the dangerous characteristics of the hydrogen peroxide.
- In order to avoid stability and decomposition problems, the fragrances and dyes must be H₂O₂ stable.

COMPONENTS

QUARTAMIN® TH-V (steartrimmonium chloride , ≈ 50% a.m.): cationic character. Conditioning and anti-static surfactant. Specially advised for clear fabric softeners.

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KCE REFERENCE : D-203

FABRIC SOFTENER

5% active

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Vegetable origin
- Good rewet ability
- Anti-static effect, especially on synthetic fabrics
- Process temperature between 30°C and 40°C approx.

COMPOSITION

	%
TETRANYL [□] L6/90	5.6
Fragrance	0.3
Dyes (1 [□] / sol. in water)	2.0
Preservative	0.05
Deionized Water	Up to 100%

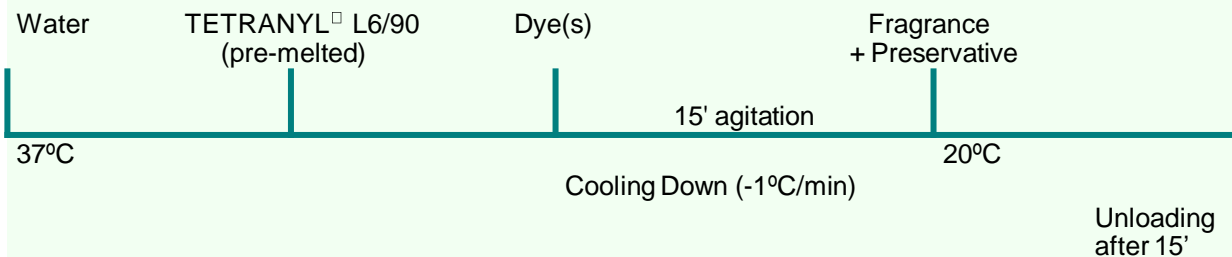
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque Viscous Liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	100 - 200 cPs	KCSA-227
ACTIVE MATTER (%) :	5 approx.	KCSA-178



KCE REFERENCE : D-203

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
 - Quality of the water
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL[□] L6/90 (partially hydrogenated palm esterquat, ≈ 90% a.m.): cationic character. Advised to prepare concentrated and ecological fabric softeners. Vegetable origin.

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KCE REFERENCE : D-133

FABRIC SOFTENER 17% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, especially on synthetic fabrics
- Process temperature between 40°C and 50°C approx.

COMPOSITION

	%
TETRANYL® L6/90	19.0
Fragrance	1.1
Dyes (1 ‰ sol. in water)	5.1
CaCl ₂ .2H ₂ O (at 15%)	1.0
Preservative	0.1
Deionized Water	Up to 100%

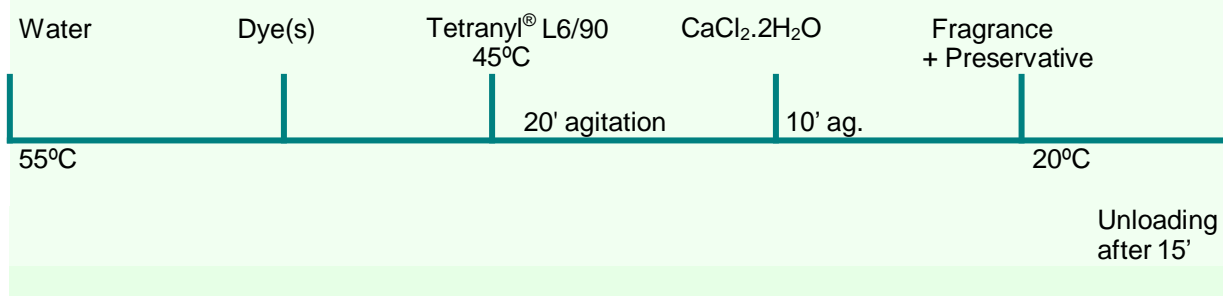
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100	KCSA-227
ACTIVE MATTER (%) :	≈ 17	KCSA-178



KCE REFERENCE : D-133

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type , time and speed.
 - Added fragrance (type and quantity).
 - Quality of water.
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® L6/90 (partially hydrogenated palm esterquat, ≈ 90% a.m.): cationic character. Advised to prepare concentrated and ecological fabric softeners. Vegetable origin.

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KCE REFERENCE : D-184

FABRIC SOFTENER

5% active

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics
- Process temperature between 25°C and 30°C approx.

COMPOSITION

%

TETRANYL [□] AT1-PG	5.9
Fragrance	0.3
Dyes (1 ^o / sol. in water)	1.7
Preservative	0.1
Deionized Water	Up to 100%

TECHNICAL CHARACTERISTICS

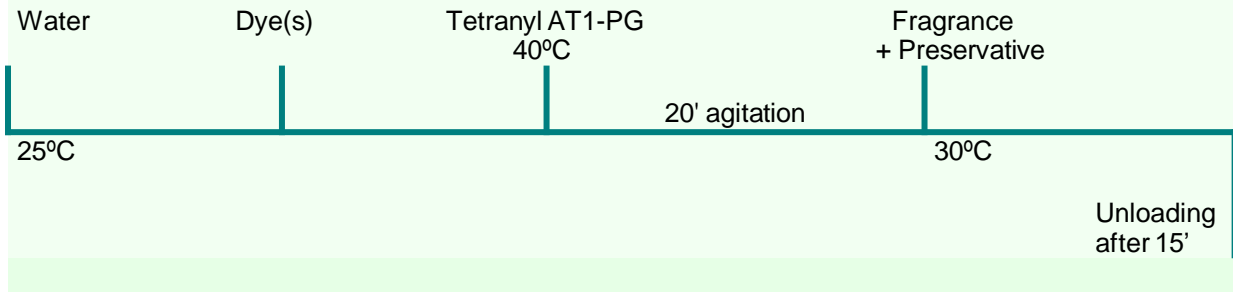
Kao Method

APPEARANCE (20°C) :	Opaque Viscous Liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100 cPs	KCSA-227
ACTIVE MATTER (%) :	5 approx.	KCSA-178



KCE REFERENCE : D-184

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type , time and speed.
 - Added fragrance (type and quantity).
 - Quality of the water
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: it is always advised to use a preservative (compatible and stable). Can be used Formol at 38%.

COMPONENTS

TETRANYL[□] AT1-PG (tallow esterquat, 85% active): cationic character. Easy handling and low hazard product, liquid at 35°C.

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KCE REFERENCE : D-077

FABRIC SOFTENER

5% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, especially on synthetic fabrics
- Process temperature between 30°C and 35°C approx.

COMPOSITION

	%
TETRANYL® L1/90S	5.5
Dye(s) (1 ‰ sol. in water)	1.7
Fragrance	0.3
Preservative	0.1
Deionized Water	Up to 100%

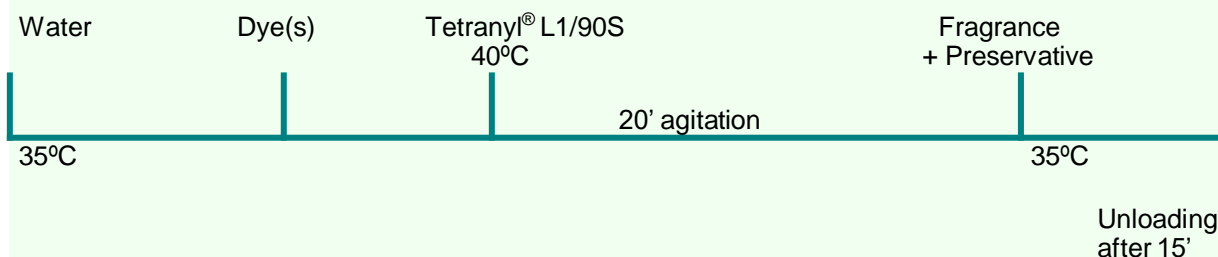
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	30 – 70	KCSA-227
ACTIVE MATTER (%) :	≈ 5	KCSA-178



KCE REFERENCE : D-077

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
- Dye: compatible with cationic surfactants. Normally blue color is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® L1/90 S (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Advised to prepare concentrated and ecological fabric softeners.

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KCE REFERENCE : D-075

FABRIC SOFTENER

20% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, especially on synthetic fabrics
- Process temperature between 30°C and 40°C

COMPOSITION

	%
TETRANYL® L1/90S	22.2
Fragrance	0.9
Dyes (1 ‰ sol. in water)	8.0
MgCl ₂ .6H ₂ O (at 20%)	e.q.
Preservative	0.1
Deionized Water	Up to 100%

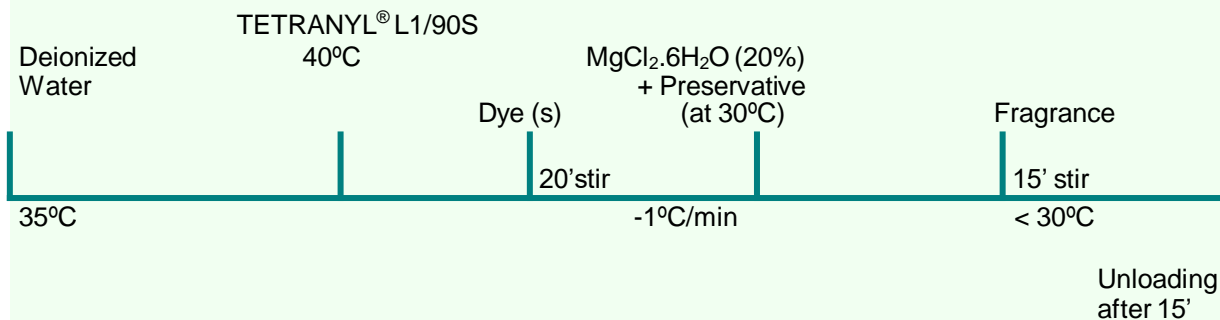
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C):	Opaque viscous liquid	KCSA-258
pH (100%):	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C):	50 - 100	KCSA-227
ACTIVE MATTER (%):	≈ 20	KCSA-178



KCE REFERENCE : D-075

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type , time and speed.
 - Added fragrance (type and quantity).
 - Quality of water.
- Dye: compatible with cationic surfactants. Normally blue color is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® L1/90 S (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Advised to prepare concentrated and ecological fabric softeners.

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KCE REFERENCE : D-076

FABRIC SOFTENER

17% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, especially on synthetic fabrics
- Process temperature between 40°C and 50°C approx.

COMPOSITION

	%
TETRANYL® L1/90S	19.0
Fragrance	1.1
Dyes (1 ‰ sol. in water)	5.1
CaCl ₂ .2H ₂ O (at 15%)	1.0
Preservative	0.1
De-ionized Water	Up to 100%

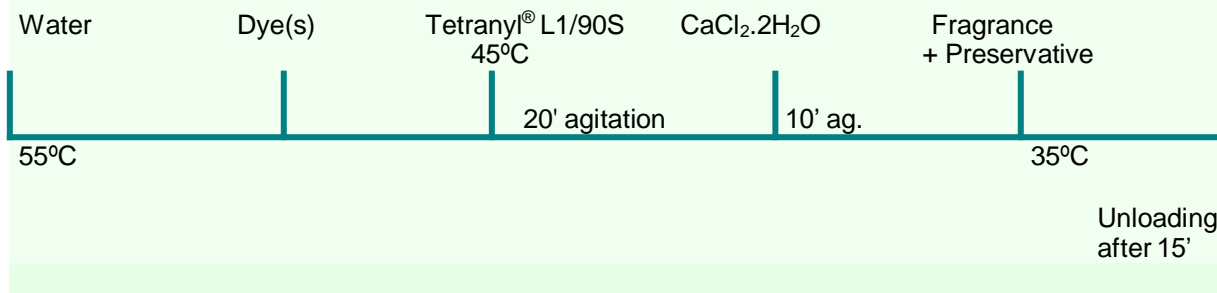
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100	KCSA-227
ACTIVE MATTER (%) :	17 approx.	KCSA-178



KCE REFERENCE : D-076

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
 - Quality of water.
- Dye: compatible with cationic surfactants. Normally blue color is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® L1/90 S (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Advised to prepare concentrated and ecological fabric softeners.

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KCE REFERENCE : D-117

FABRIC SOFTENER 12% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, especially on synthetic fabrics
- Process temperature between 40°C and 50°C approx.

COMPOSITION

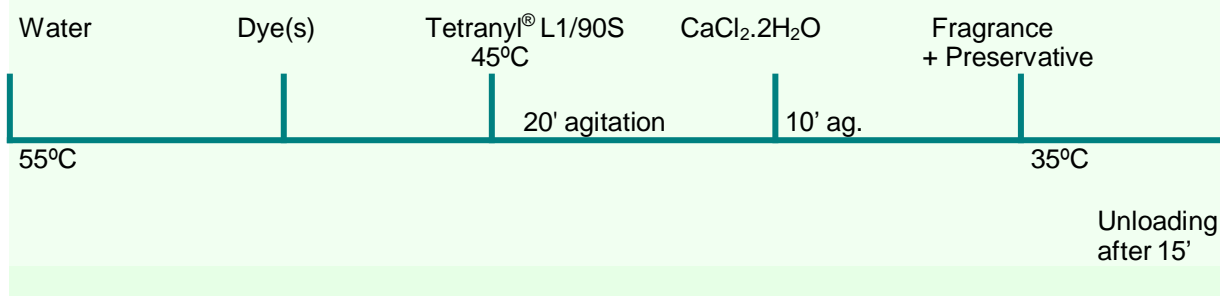
	%
TETRANYL® L1/90S	13.5
Fragrance	0.8
Dyes (1 ‰ sol. in water)	3.6
CaCl ₂ .2H ₂ O (at 15%)	e.q
Preservative	0.1
De-ionized Water	Up to 100%

TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100	KCSA-227
ACTIVE MATTER (%) :	12 approx.	KCSA-178

KCE REFERENCE : D-117

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
 - Quality of water.
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® L1/90 S (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Advised to prepare concentrated and ecological fabric softeners.

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KCE REFERENCE : D-072

FABRIC SOFTENER

6 % concentration

DESCRIPTION

- Domestic fabric softener premix
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics.
- Process temperature between 35°C and 40°C

COMPOSITION

	%
TETRANYL® AT-7590	6.7
Dye(s) (1 ‰ sol. In water)	1.7
Fragrance	0.3
Preservative	0.1
Deionized water	Up to 100%

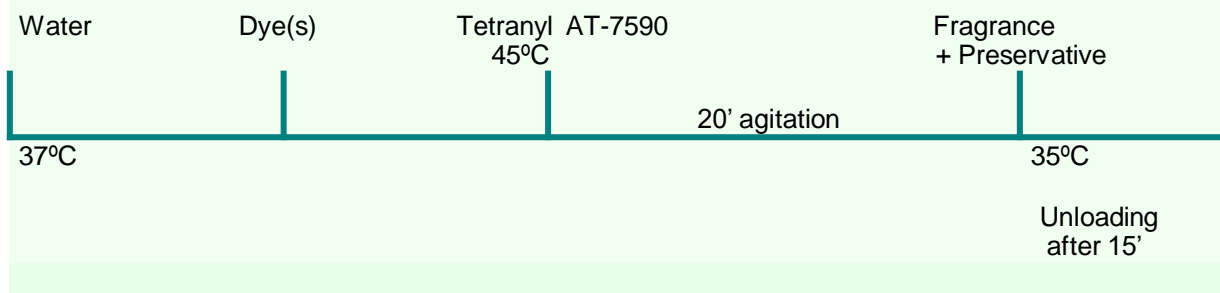
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 - 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	500 - 600	KCSA-227
ACTIVE MATTER (%) :	≈ 6	KCSA-178
STABILITY :	Correct	(1month at 40°C/RT/5°C)



KCE REFERENCE : D-072

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature
 - Agitation type, time and speed
 - Added fragrance (type and quantity)
- Dye: compatible with cationic surfactants. Normally blue color is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® AT-7590 (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Product specially advised to obtain low concentrated (≈ 5 %) final fabric softeners with suitable viscosity. Ecological product.

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KCE REFERENCE : D-073

FABRIC SOFTENER

5 % concentration

DESCRIPTION

- Domestic fabric softener premix
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics.
- Process temperature between 30°C and 40°C

COMPOSITION

	%
TETRANYL® AT-7590	5.6
Dyes (1 ‰ sol. In water)	1.7
Fragrance	0.3
Preservative	0.1
Deionized water	Up to 100%

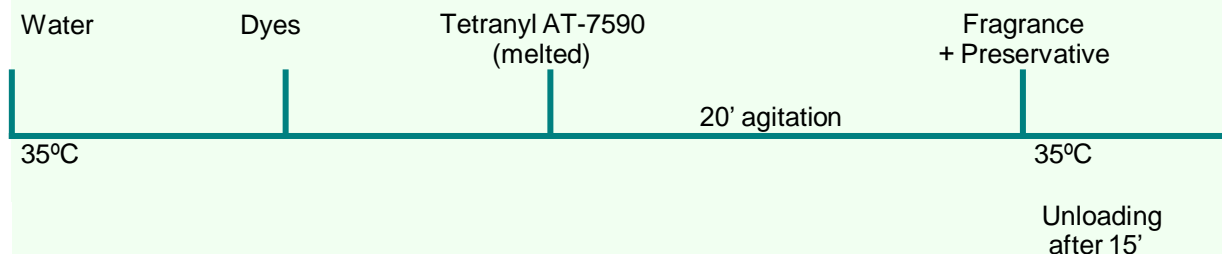
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 - 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	300 - 400	KCSA-258
ACTIVE MATTER (%) :	≈ 5	KCSA-178



KCE REFERENCE : D-073

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature
 - Agitation type, time and speed
 - Added fragrance (type and quantity)
- Dye: compatible with cationic surfactants. Normally blue color is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® AT-7590 (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Product specially advised to obtain low concentrated (≈ 5 %) final fabric softeners with suitable viscosity. Ecological product.

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KCE REFERENCE : D-071

FABRIC SOFTENER

17% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics
- Process temperature between 35°C and 40°C approx.

COMPOSITION

	%
TETRANYL® AT-7590	18.9
Dyes (1 ‰ sol. in water)	5.1
CaCl ₂ .2H ₂ O (at 15%)	2.0
Fragrance	1.1
Preservative	0.1
De-ionized Water	Up to 100%

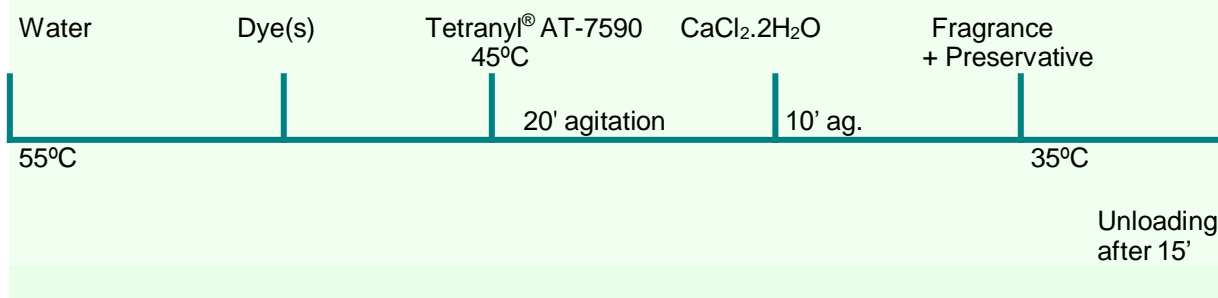
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100	KCSA-227
ACTIVE MATTER (%) :	≈ 17	KCSA-178



KCE REFERENCE: D-071

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
 - Quality of water.
- Dye: compatible with cationic surfactants. Normally blue color is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® AT-7590 (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Product specially advised to obtain low concentrated (≈ 5 %) final fabric softeners with suitable viscosity. Ecological product.

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KCE REFERENCE : D-118

FABRIC SOFTENER

12% concentration

DESCRIPTION

- Domestic fabric softener
- Ecological and biodegradable product
- Good rewet ability
- Anti-static effect, specially on synthetic fabrics
- Process temperature between 50°C and 55°C approx.

COMPOSITION

	%
TETRANYL® AT-7590	13.4
Fragrance	0.8
Dyes (1 ‰ sol. in water)	3.6
CaCl ₂ .2H ₂ O (at 15%)	c.s.
Preservative	0.1
De-ionized Water	Up to 100%

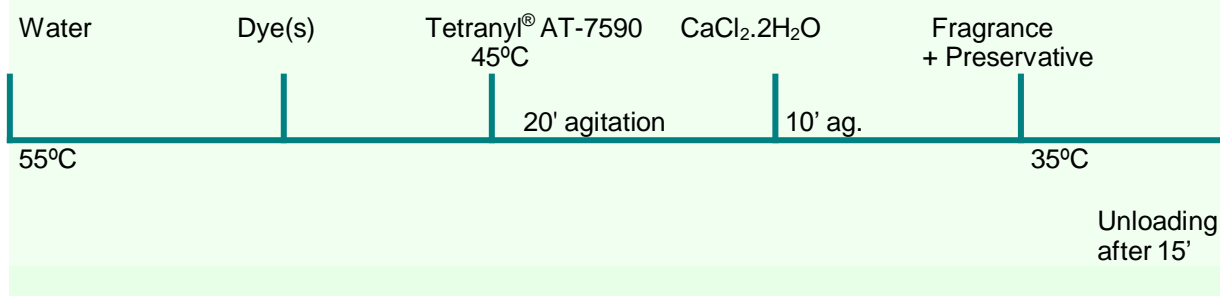
TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	Opaque viscous liquid	KCSA-258
pH (100%) :	2.5 – 3.0	KCSA-014
VISCOSITY (cPs, 20°C) :	50 – 100	KCSA-227
ACTIVE MATTER (%) :	≈ 12	KCSA-178



KCE REFERENCE: D-118

RECOMMENDED OPERATIVE METHOD



COMMENTS

- Viscosity depends on:
 - Process temperature.
 - Agitation type, time and speed.
 - Added fragrance (type and quantity).
 - Quality of water.
- Dye: compatible with cationic surfactants. Normally blue colour is used.
- Preservative: it is always advised to use a preservative (compatible and stable).

COMPONENTS

TETRANYL® AT-7590 (partially hydrogenated tallow esterquat, ≈ 90% a.m.): cationic character. Product specially advised to obtain low concentrated (≈ 5 %) final fabric softeners with suitable viscosity. Ecological product.

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