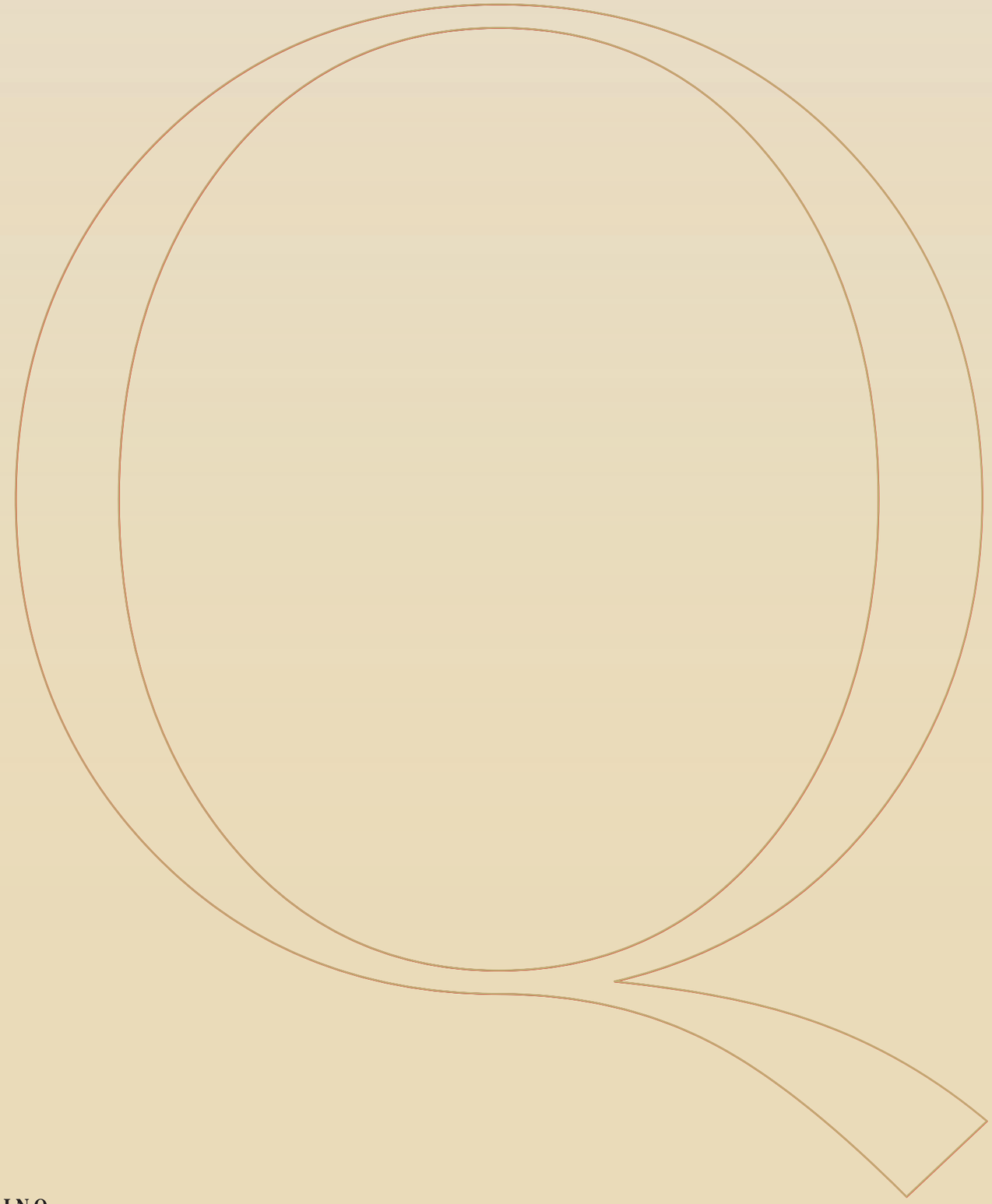


ARIMINO

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One step beyond.

QUOLINE

# Texture and design,

# just the way you want

Turning every hair concern into your perfect style.

Leaves hair soft, smooth and easy to manage.

More than just enhancing hair quality,
it helping you enjoy hair design even more.

Bringing joy to all who seek authenticity.
QUOLINE. One step beyond.





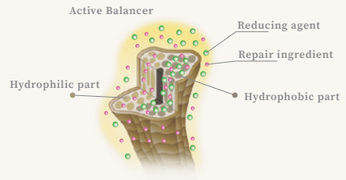

# QUOLINE Features

**From straight perm and digital perms to damaged ends,
we tackle the many issues in conventional perms.**

## More manageable natural curls

### Active Balancing Function

We contine to use the Active Balancing Function,
which smoothly delivers the right ingredients where
they are needed, in the right amount.
The Active Balancer **works on the hydrophobic section of natural curls, which are hard to penetrate, promoting effective absorption of key ingredients** such as reducing agents and
hair softening agets. Alkali levels have been reduced to a minimum.




※Images are for illustrative purpose only.

## Addictively soft to the touch

### Heat-Protection ingredients and Serum Wrap Formula

The perm cream contains Trimethylglycine (betaine), a beat-derived heat-protection ingredient that **helps prevent hair from becoming stiff** due to heat denaturation of protein.



Trimethylglycine (betaine)
(Protection)

This ingredient is used in higher amounts in "QUOLINE 110 (For mixed damage)" and "QUOLINE 50 (For high damage)".

Additionally, **a rich serum–well balanced with moisture and oil–wraps it like a veil, locking in hydrration** and maintaining long-lasting moisture.
Maintains smoothness and softness with heat protective ingredients.



Ceramide※1
(Moisturizing)



Keratin※2
(Repair)



Shea Butter※3
(Moisturizing)



Silk PPT※4
(Repair)

In perm cream (1st cream) | In neutralizer (OX, After cream ) | In neutralizer(OX, After cream/lotion)

※1 N-Lauroyl-L-Glutamic Acid (Phytosteryl 2-Octyldodecyl) Lauroyl Glutamate (Phytosteryl/Octyldodecyl)
※2 Sodium N-[2-Hydroxy-3-(Trimethylammonio) Propyl] Hydrolyzed Keratin Liquid Hydrozupropyltrimonium Hydrolyzed Kerain (Wool)
※3 Shea Butter
※4 Hydrolyzed Silk Liquid Hydrolyzed Silk

## Enjoy multiple salon services with minimal hair damage

### Formulas designed for the hair ends

Neutral pH formulas designed for the hair ends to **minimize damage to delicate areas**, such as previously straightened or colored hair.
Creates soft, smooth styles for delicate hair.

QUOLINE 100 (For digital perm)
QUOLINE 80 (For straightening)




CA-T-C 100 T-C 80

## Effectively addressing complex damage caused by bleaching and aging

Formulated within a mildly acidic range to minimize sudden or excessive softening. This allows you to enjoy hair designs,
even with highly damaged hair or mixed damage from highlights.
Formulated with Tostea® ※5, it enhances hair elasticity and supports maintaining straightening results.

QUOLINE 110 (For mixed damage)
QUOLINE 50 (For high damage)




CA-C 110 T-C 50

※5 Diammonium Aminoethylthiosuccinate

## Pre-treatment that protects hair from excessive processing

Used as a pre-treatment, it protects the hair from damage.
Dithiodiglycolic acid moderates the action of reducing agents and hair softening agents.
Citric acid※ buffer lowers the pH and helps control excessive swelling caused by alkaline agents.




ADJUST 0

※ pH control

## "Heat-protection oil" for use in both the perm process and at-home care



This heat-protection oil is formulated with both **a VItamin C derivative and Elcalactone, which adhere effectively to the hair surface** when heat is applied.
(e.g. dryer, thermal tools)
It protects the hair from heat damage and maintains its suppleness.



Vitamine C Derivative※6
(Protection)



Elcalactone※7
(Protection)



Macademia Nut oil
(Moisturizing)



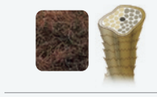
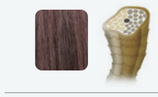
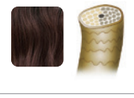
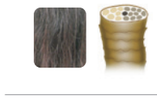
Squalane
(Moisturizing)

※6 Ascorby Tetrahexyldecanate ※7 Gamma-Docosalactone

# Create a variety of hair designs with QUOLINE

**QUOLINE addresses the individual characteristics of different hair types, creating supple and beautiful styles.**
**With its Active Balansing function, it expands hair design possibilities, from straight styles to curls.**

## Product lineup

| | T 280 | T-C 250 | T-C 80 | CA-T 200 | CA-C 130 | CA-C 110 | T-C 50 | CA-T-C 100 | Hair protection cream |
|---|---|---|---|---|---|---|---|---|---|
| Straight perm (1st cream) | ● | ● | ● | ● | ● | ● | ● | | |
| Digital perm (1st cream) | | | | ● | ● | ● | ● | ● | |
| Product name | T 280 | T-C 250 | T-C 80 | CA-T 200 | CA-C 130 | CA-C 110 | T-C 50 | CA-T-C 100 | ADJUST 0 |
| |  |  |  |  |  |  |  |  For digital perm |  |
| Size | 400g | 400g | 400g | 400g | 400g | 400g | 400g | 400g | 400g |
| pH | 9.2 | 8.9 | 7.0 | 8.8 | 7.7 | 6.0 | 6.0 | 7.7 | 5.0 |
| Alkaline agent | Ammonium Hydrogen Carbonate/ Monoethanolamine | Ammonium Hydrogen Carbonate/ Monoethanolamine/ Ammonia | Arginine | Ammonium Hydrogen Carbonate/ Ammonia | Arginine/ Ammonia | | | Arginine/ Ammonia | Main ingredients<br>Citric Acid(pH control)<br>Sodium Citrate(pH control)<br>Dithiodiglycolic Acid<br>Diammonium(stabilizer) |
| Alkali amount | 6.5mL | 3.5mL | 0.7mL | 4mL | 1mL | | | 0.7mL | |
| Reducing agent Hair softening agent | Ammonium Thioglycolate | Ammonium Thioglycolate/ Cysteine | Ammonium Thioglycolate/ Cysteine | Ammonium Thioglycolate/ Cysteamine | Cysteamine/ Cysteine | Cysteamine/ Cysteine | Ammonium Thioglycolate/ Cysteine | Cysteamine/ Ammonium Thioglycolate/ Cysteine | |
| Reducing power | 10.7% | 10.7% | 5% | 7% | 7% | 7% | 1.9% | 5% | |
| Hair type | Mix of Coily & Curly hair  | Curly hair  | | Wavy hair  | Delicate hair  | | | | |
| Target hair | Damage level 1 | Damage level 1 | Damage level 3–4 (Straightened hair) | Damage level 1–2 | Damage level 1–3 | Damage level 3–4 | Damage level Between 4–5 | Damage level 3–4 (Digital permed hair) | |
| Undertone | 5 or below | 5 or below | 12–14 | 5–11 | 5–13 | 5–15 | 15–17 | 12–14 | |
| Fragrance | Woody Floral | | | Fruity Floral | | | | Fruity Floral | Fruity Floral |

| | Neutralizer | | Neutralizer | Neutralizer(lotion) | Heat protection oil |
|---|---|---|---|---|---|
| Category | | | | | |
| Product name | OX | MILK OX | AFTER CREAM | AFTER LOTION | HAIR OIL |
| |  |  |  |  |  |
| Size | 800g | 800g | 800g | 400mL | 70mL |
| pH | 3.0 | 3.0 | 6.0 | 6.0 | |
| Oxidizing agent | Hydrogen Peroxide Solution | Hydrogen Peroxide Solution | Sodium Bromate | Sodium Bromate | |
| Fragrance | Woody Floral | | Fruity Floral | | Green Floral |

Main ingredients
Vitamin C Derivative※1(Protection)
Elcalactone※2(Protection)
Macadamia Nut Oil(Moisturizing)
Squalane(Moisturizing)
※1 Ascorby Tetrahexyldecanate
※2 Gamma-Docosalactone

## Types and features of reducing agents

### Ammonium Thioglycolate

<Curl Strength>
Alkaline range ★★★★/Acidic range ★★

<Finish texture> From supple to firm, elastisity

・Works deep within the hair. Utilizes the heat of a flat iron or digital perm machine to support straightening and curl formation, enhancing long-lasting results.
By adjusting pH, it can address various hair types and conditions.

### Cysteamine

<Curl strength>
Alkaline range ★★★★/Acidic range ★★★

<Finish texture> Soft, fluffy curls

・Works on the cortex near the cuticle, enhancing curl formation. Compared to Thioblycolic acid and Cysteine, it provides higher curl formation even at low pH.
Ideal for perming delicate or sensitized hair.

### Cysteine

<Curl strength>
Alkaline range ★★/Acidic range ★

<Finish texture> Supple elasticity, firmness

・Works mainly on the hair surface, providing supple elasticity, firmness, and body to the hair.
Ideal for perming delicate or sensitized hair.

# Formulation chart

## Straight

| Straight perm history | No straight perm history | | With straight perm history | | |
|---|---|---|---|---|---|
| Damage level | 1 | 2 | 3 | 4 | 5 |
| ①Hair history ②Undertone level / Type of curl or wave | **Virgin hair**<br>①No chemical use history<br>With friction/Heat/UV damage<br>②5 level or below | **Light damage**<br>①Alkaline processing 1 time /year<br>②6 – 11 level | **Medium damage**<br>①Alkaline processing 6 times /year<br>②12–14 level | **High damage**<br>①Alkaline processing 12 times /year<br>②15–17 level | **Porous hair**<br>①Heavy user of alkaline processing<br>②Above 18 level |
| **Mix of coily&curly hair** | 280 | 280:0(5:1) | 80 ※1 | ADJUST 0 ※2<br>80 ※1 | ADJUST 0<br>(For hair protection) |
| **Curly hair** | 250 | 250:0(5:1) | 80 ※1 | ADJUST 0 ※2<br>80 ※1 | |
| **Wavy hair** | 200 | 200:0(5:1) | 80 | ADJUST 0 ※2<br>80 | |
| **Delicate hair**<br>**(Aging・Fine/Baby hair)** | 130 | 130:0(5:1) | 80 | ADJUST 0 ※2<br>80 | |

## Complex hair history ( e.g. bleach damage)

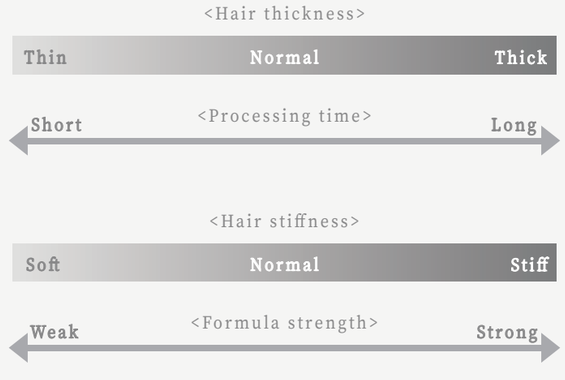
| | Color history | | | |
|---|---|---|---|---|
| **Delicate hair**<br>**(Frizz caused by a complex hair history)** | **Mixed-damage hair (Bleach highlights)** | **Highlights Undertone/14–15 level** | **Highlights Undertone/16–17 level** | **Bleach Undertone/Above 18 level** |
| | | 110 | ADJUST 0 ※2<br>110 | ADJUST 0<br>(For hair protection) |
| | **Bleach damage hair (Full-head bleach)** | **Undertone/15–16 level** | **Undertone/17 level** | |
| | | 50 | ADJUST 0 ※2<br>50 | |

※1 If curl reversion is strong, combine it with a formula for virgin hair. ＊Example : Curly hair, Damage level 3 ・・・ 80 : 250(5 : 1) (The ratio is the mixing ratio)
※2 For damage level 4, apply ADJUST 0 beforehand.

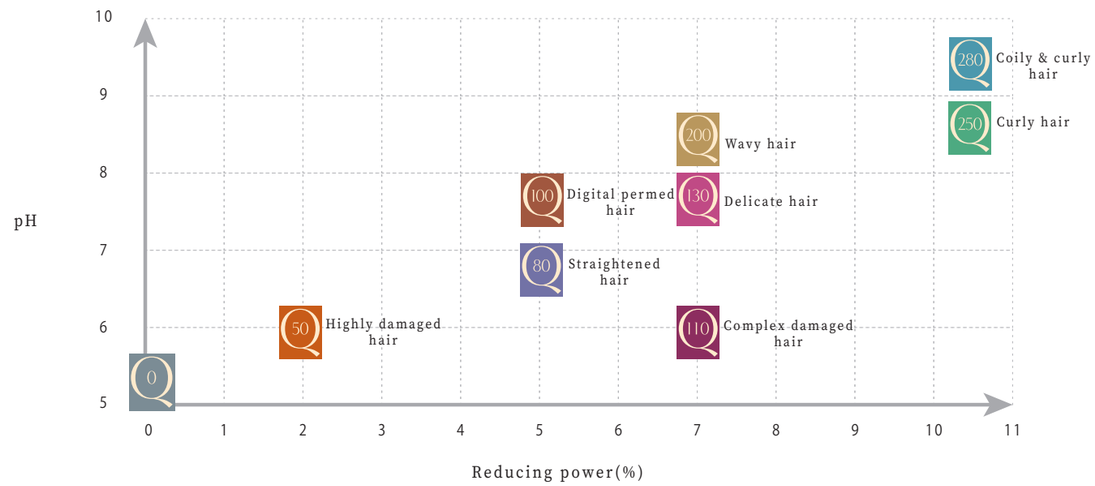
**Processing time : 15–30 minutes**

Please perform the reduction check 15 minutes after finishing the application.
※For highly damaged hair, perform the check earlier.

**For hair other than normal, adjust the processing time and formula combinations according to the hair condition, based on the above guideline.**




## Product positioning map




## Digital perm

| Digital perm history | No digital perm history | | With digital perm history | | |
|---|---|---|---|---|---|
| Damage level | 1 | 2 | 3 | 4 | 5 |
| Hair history / Hair type | **Virgin hair**<br>No chemical use history<br>With friction/Heat/UV damage | **Light damage**<br>Alkaline processing 1 time /year | **Medium damage**<br>Alkaline processing 6 times /year | **High damage**<br>Alkaline processing 12 times /year | **Porus hair**<br>Heavy user of alkaline processing |
| **Normal hair** | 200 | 200:0(5:1) | 100 | ADJUST 0 ※2<br>100 | ADJUST 0<br>(For hair protection) |

※2 For damage level 4, apply ADJUST 0 beforehand. (The ratio is the mixing ratio)

**Processing time : 15–30 minutes**

Please perform the reduction check 15 minutes after finishing the application.
※For highly damaged hair, perform the check earlier.

## Curl Chart (20mm rod/10 minutes at 60℃)

★Recommended product

### Damage level 1 (Virgin hair)

| CA-T 200 ★ | CA-T-C 100 |
|---|---|
|  |  |
| Defined and uniform curls even on virgin hair. | |

### Damage level 3 (Medium damage)

| CA-T 200 | CA-T-C 100 ★ |
|---|---|
|  |  |
| | Uniform curls similar to the curl pattern of virgin hair. |

## Process (Straight perm / Digital perm)

**Straight perm**

**Digital perm**

Hair Evaluation & Formulation

Shampoo

Pre-treatment

**ADJUST 0**

※SHERPA is recommended for pre-treatment.

※Recommended amount
Short 80g




**280・250・200**
**130・110・80・50**

Let stand・Check hair （15–30 min）




**200・130・110・100・50**

※After application, winding the a rod with a diameter close to the one you plan to use makes it easier to check the hair.

Let stand・Check hair （10–15 min）

Rinse

※After rinsing the perm cream, continue rinsing the hair well while running your fingers through it. (About 3 min)

Winding

Apply heat （10 min at 60℃–90℃）

Cooling （3–5 min）

Intermediate treatment

※QUOLINE Hair Oil is recommended

※Recommended amount
Short 80g




**OX・MILK OX**

Let stand：5 min




**AFTER CREAM**

Let stand：10 min

※Recommended amount
Short 80mL




**AFTER LOTION**

Let stand：7 min + 7 min

Remove rods

Rinse

※QUOLINE Hair Oil is recommended

After-treatment・Finish