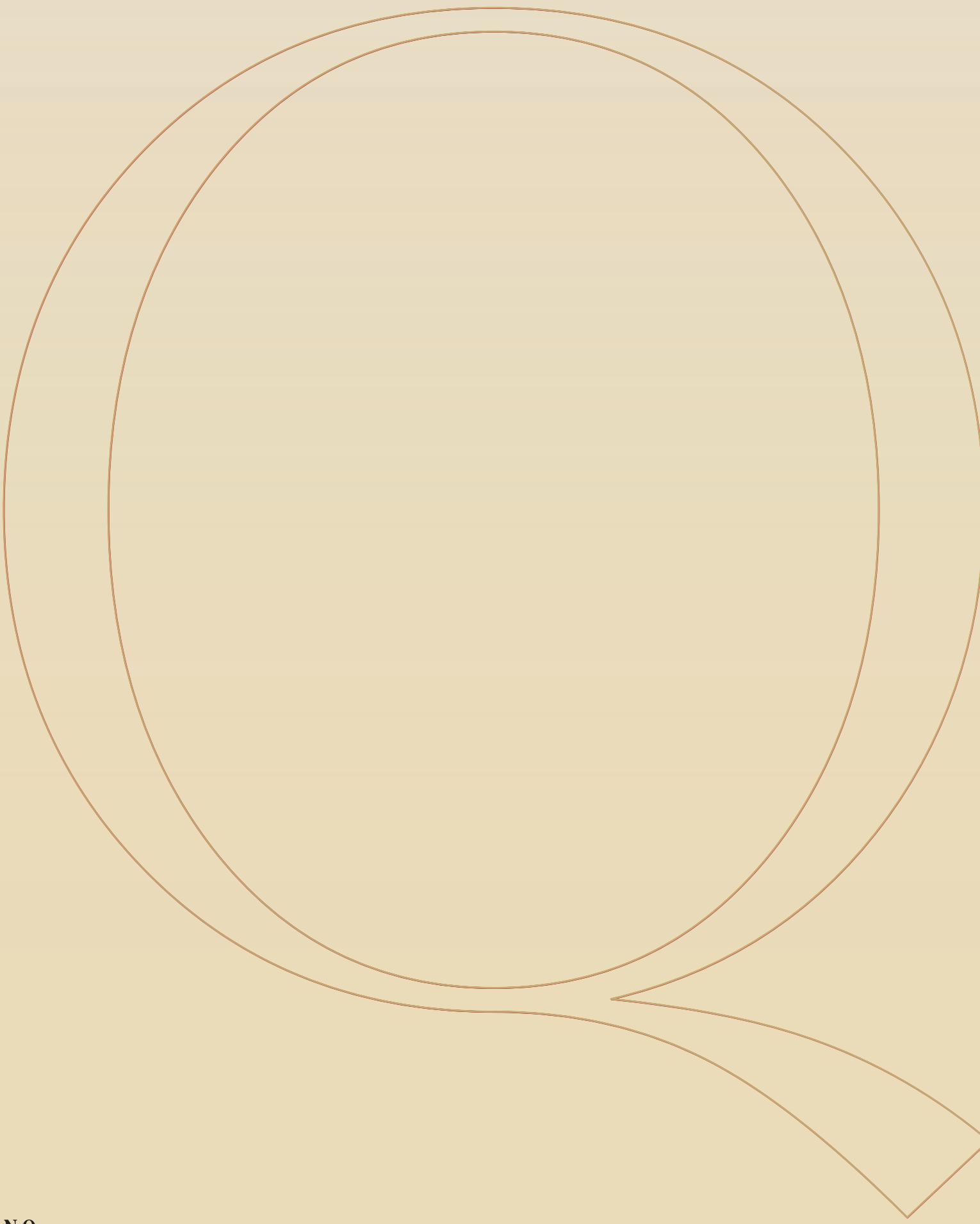


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ARIMINO

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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

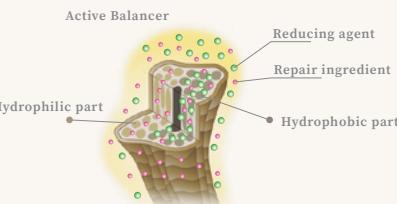
From straight perm and digital perms to damaged ends, we tackle the many issues in conventional perms.



More manageable natural curls Active Balancing Function



We continue 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 agents. 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 betaine-derived heat-protection ingredient that helps prevent hair from becoming stiff due to heat denaturation of protein. 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 hydration and maintaining long-lasting moisture. Maintains smoothness and softness with heat protective ingredients.



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 Keratin (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)



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 Tosteal®^{**5}, it enhances hair elasticity and supports maintaining straightening results.

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



* 5 Diammonium Aminoethylthiosuccinate



Pre-treatment that protects hair from excessive processing



* pH control

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.

"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.



Vitamin C Derivative^{**6}
(Protection)



Elcalactone^{**7}
(Protection)



Macadamia Nut oil
(Moisturizing)



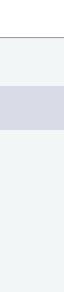
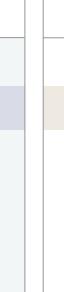
Squalane
(Moisturizing)

* 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 Balancing function, it expands hair design possibilities, from straight styles to curls.

Product lineup

Straight perm (1st cream)									Hair protection 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
Size	400 g	400 g	400 g	400 g	400 g	400 g	400 g	400 g	400 g
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	
Alkali amount	6.5 mL	3.5 mL	0.7 mL	4 mL	1mL			0.7 mL	
Reducing agent	Ammonium Thioglycolate	Ammonium Thioglycolate/ Cysteine	Ammonium Thioglycolate/ Cysteine	Ammonium Thioglycolate/ Cysteine	Cysteamine/ Cysteine	Cysteamine/ Cysteine	Ammonium Thioglycolate/ Cysteine	Cysteamine/ Ammonium Thioglycolate/ Cysteine	
Hair softening agent									
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
Category	Neutralizer								
Product name	OX	MILK OX		AFTER CREAM			AFTER LOTION		Heat protection oil
Size	800g	800g		800g			400mL		
pH	3.0	3.0		6.0			6.0		70mL
Oxidizing agent	Hydrogen Peroxide Solution	Hydrogen Peroxide Solution		Sodium Bromate			Sodium Bromate		
Fragrance	Woody Floral								

Types and features of reducing agents

Ammonium Thioglycolate	Cysteamine	Cysteine	Main ingredients
<Curl Strength> Alkaline range ★★★★/Acidic range ★★ <Finish texture> From supple to firm, elasticity · 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.	<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.	<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.	Vitamin C Derivative ^① (Protection) Elcalactone ^② (Protection) Macadamia Nut Oil(Moisturizing) Squalane(Moisturizing) ① Ascorby Tetrahexyldecanate ② Gamma-Docosalactone

Formulation chart

Straight

Straight perm history	No straight perm history		With straight perm history			
Damage level	1	2	3	4	5	
① Hair history ② Undertone level	Virgin hair ① No chemical use history With friction/Heat/UV damage ② 5 level or below	Light damage ① Alkaline processing 1 time /year ② 6 - 11 level	Medium damage ① Alkaline processing 6 times /year ② 12-14 level	High damage ① Alkaline processing 12 times /year ② 15-17 level	Porous hair ① Heavy user of alkaline processing ② Above 18 level	
Type of curl or wave						
Mix of coily&curly hair	280	280:0(5:1)	80 *1	80 *1	ADJUST 0 *2	
Curly hair	250	250:0(5:1)	80 *1	80 *1	ADJUST 0 *2	
Wavy hair	200	200:0(5:1)	80	80	ADJUST 0 *2	
Delicate hair (Aging • Fine/Baby hair)	130	130:0(5:1)	80	80	ADJUST 0 *2	

Product positioning map



Complex hair history (e.g. bleach damage)

Delicate hair (Frizz caused by a complex hair history)	Color history			ADJUST 0 (For hair protection)
	Highlights Undertone/14-15 level	Highlights Undertone/16-17 level	Bleach Undertone/Above 18 level	
	Mixed-damage hair (Bleach highlights)	110	110	
	Bleach damage hair (Full-head bleach)	50	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.

Digital perm

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

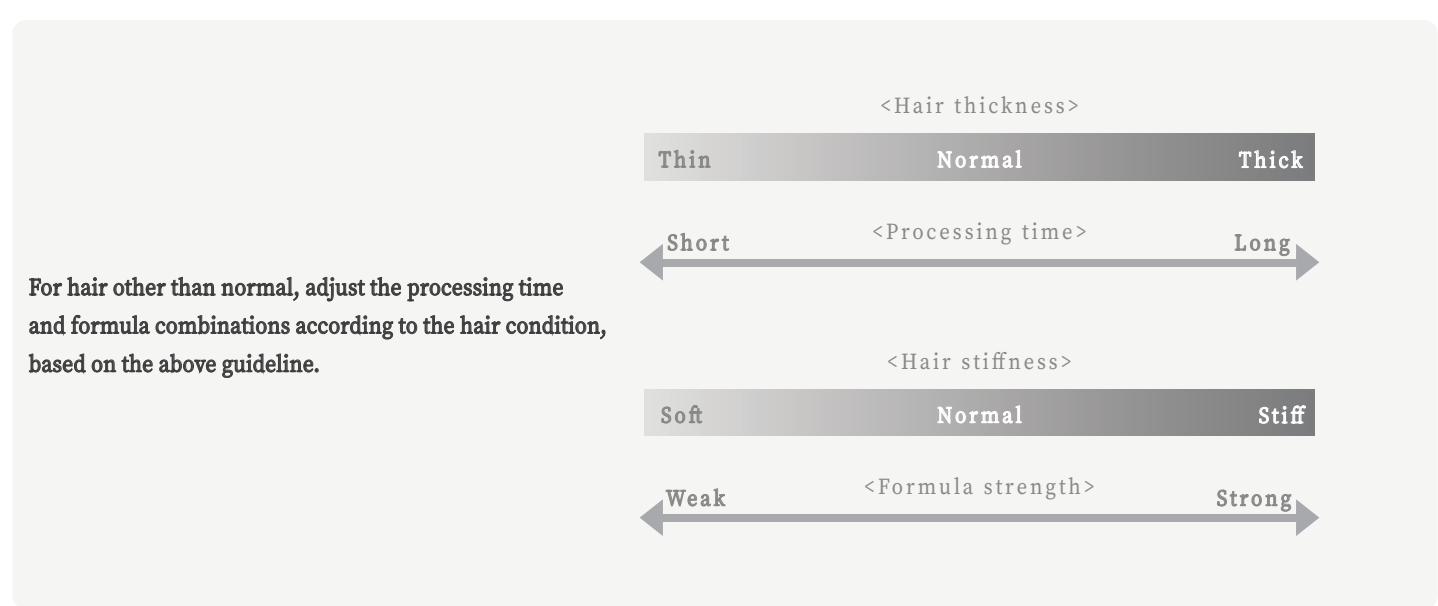
*2 For damage level 4, apply ADJUST 0 beforehand.

(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.



Damage level 1 (Virgin hair)



Damage level 3 (Medium damage)



Process (Straight perm / Digital perm)

Straight perm

Digital perm

