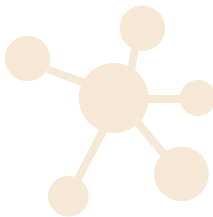


Safety Evaluation



Quaternium-80

Score

1

Best 1 2 3 4 5 6 7 8 9 10 Worst

EWG
VERIFIED™

Resoft 80 has a raw material safety score of 1, indicating high safety. (Data from EWG)

[Click here for all similar products](#)

Formulation Recommendations

Phase	Ingredient	Percentage	Trade Name
A	Water	To 100	
	Polyquaternium-10	0.3	Resoft 400
B	Water	5	
	Piroctone Olamine	0.5	
C	Sodium Taurine Cocoyl Methyltaurate	10	Remild CTT30
	Cocamidopropyl Betaine	10	
	Sodium C14-16 Olefin Sulfonate	15	Refoam AOS35
	Sodium Lauroyl Sarcosinate	5	Remild LS30
	Laureth-7 Citrate	1	Refoam L7C
	Sodium Lauroamphoacetate	5	Refoam SLA32
	PEG-120 Methyl Glucose Dioleate, Propylene Glycol, Water	2.5	Rethick DOE120FL
	Propylene Glycol Laurate	0.5	Resense PGL
D	PEG-7 Glyceryl Cocoate	1	Reachin HE
	PPG-3 Caprylyl Ether	0.5	Regrease GP-3
	Quaternium-80	1	Resoft 80
	Hydrolyzed Wheat Protein	0.5	Reactive HWP
E	30% Citric Acid	0.5	
	Phenoxyethanol, Ethylhexylglycerin	0.6	Reanti PEG
	Perfume	Q.s	

Resoft 80 Quaternium-80

Application



Shampoo



Shower Gel



Facial Cleanser



Hair Conditioner

.....

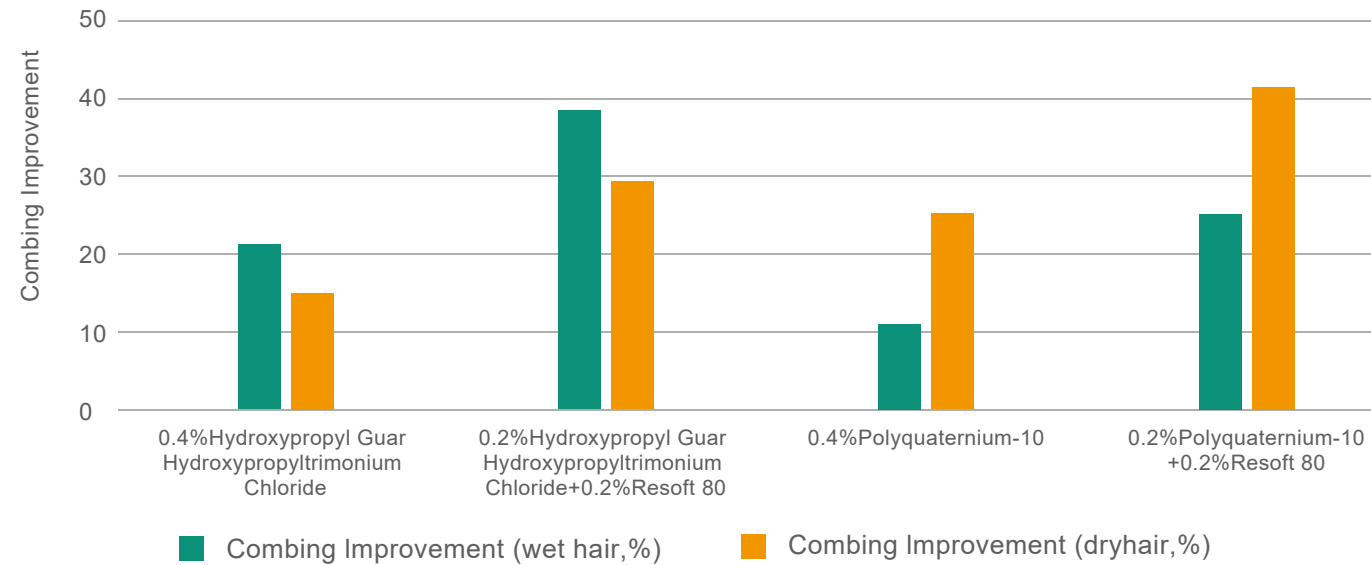
Features

- 1 Dissolves well in water and is highly compatible with various surfactants, making it ideal for transparent formulations
- 2 Excellent antistatic properties, improving hair combability in both wet and dry conditions
- 3 Noticeably enhances hair shine and softness
- 4 Effectively protects hair from heat damage

Performance Test

1: Dry and wet combing test

> The Degree of Combing Improvement of Shampoos with Different Conditioning Agents

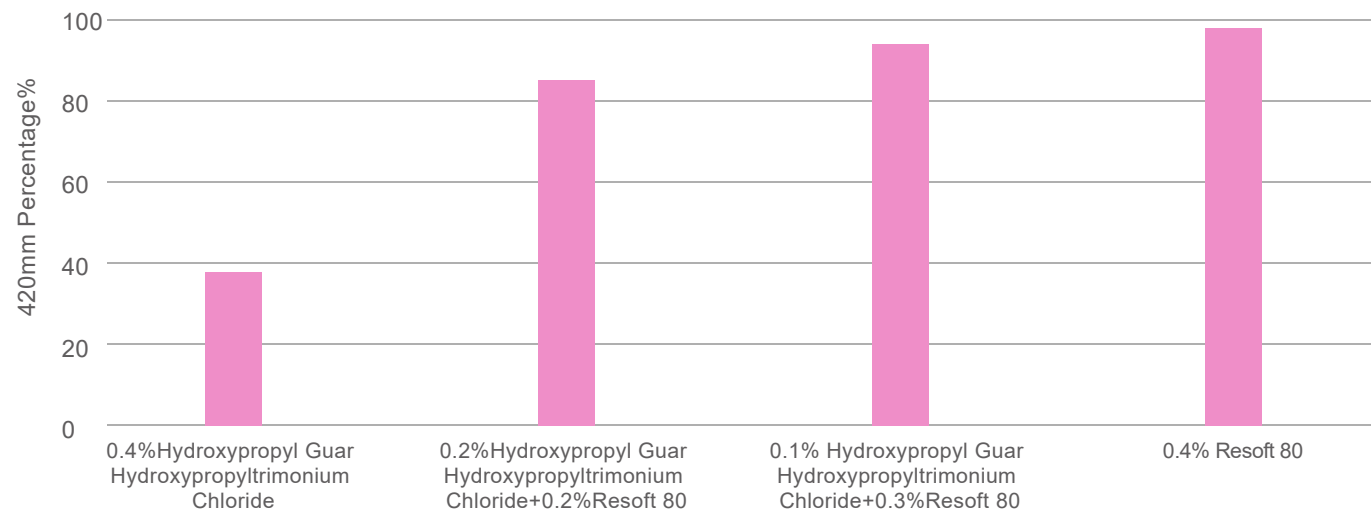


Shampoo Sample (Conditioning Agents as Active Ingredients)

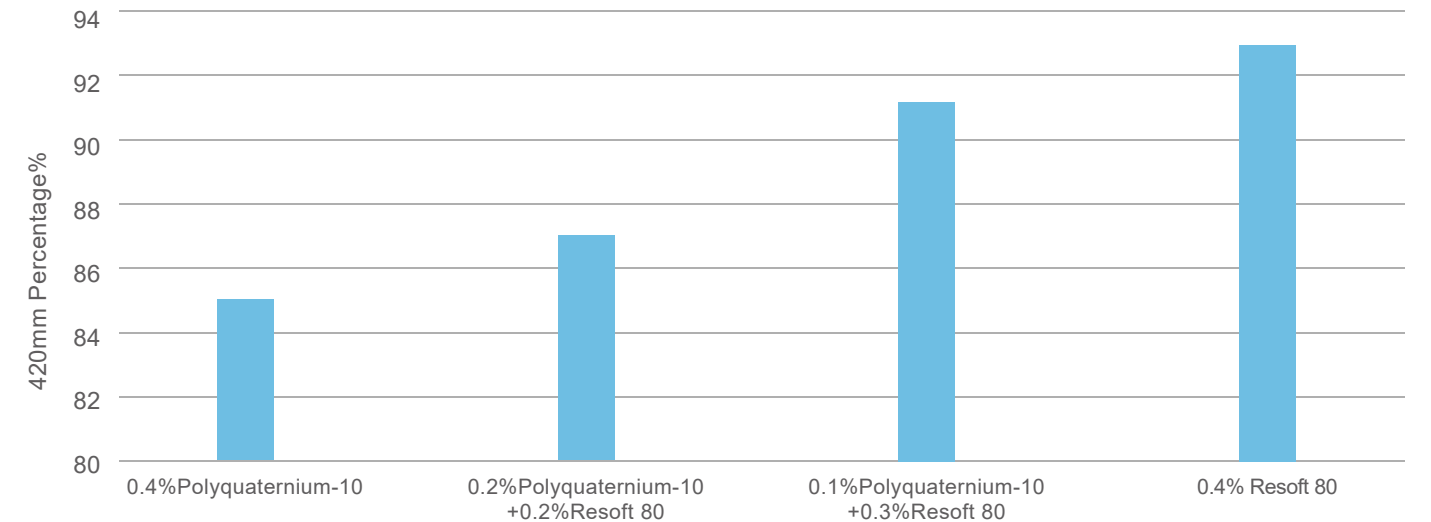
Conclusion: When used with various conditioning agents, Resoft 80 significantly improves combing performance in both wet and dry conditions

2: Transparency test

> Amino Acid Shampoo Translucency Percentage%



Shampoo Sample (Conditioning Agents as Active Ingredients)



Shampoo Sample (Conditioning Agents as Active Ingredients)

Conclusion: In amino acid-based formulations, adding Resoft 80 allows for a reduction in other conditioning agents, enhancing overall transparency

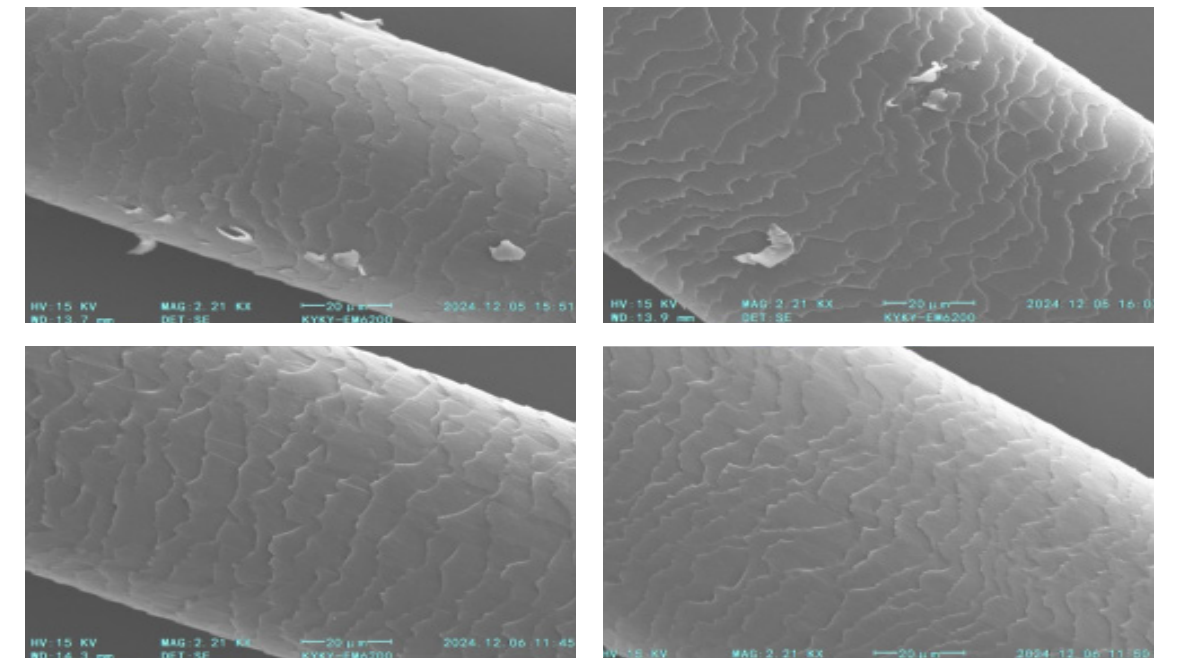
3: Repairing Effect Test

Repeat 1

Repeat 2

Before

After



Conclusion: Scanning electron microscope images of the hair before using the sample show lifted and partially flaked cuticles. After application, some cuticles appear slightly smoother and more closed, indicating a certain repairing effect on the hair