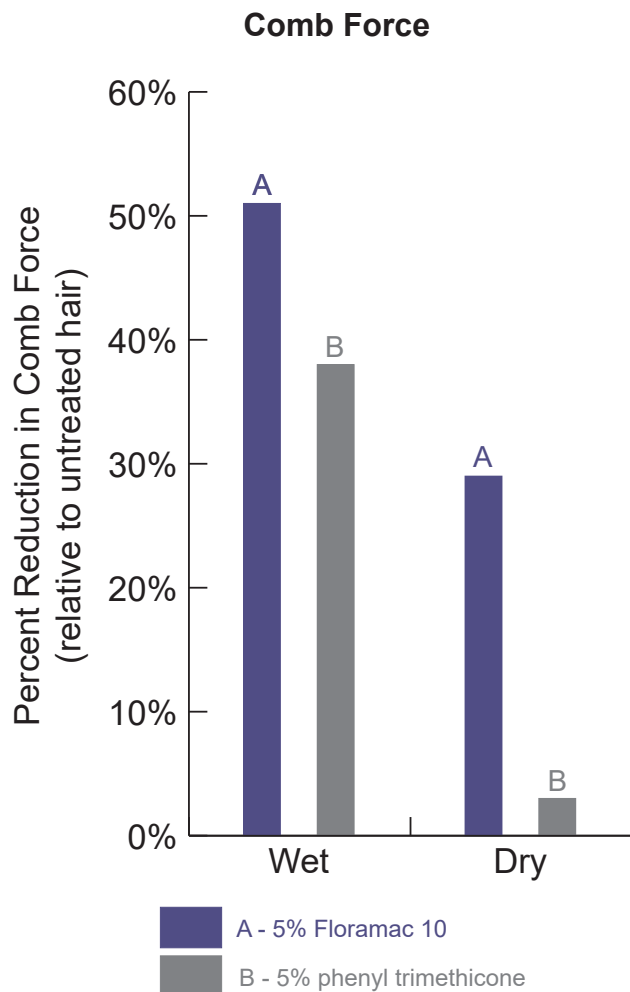


COMB FORCE REDUCED USING FLORAMAC® 10 AS A SILICONE ALTERNATIVE IN A LEAVE-IN HAIR CREAM

CS 19-132



Floramac 10 in a Leave-In Hair Cream Reduced Wet and Dry Comb Force of Hair



Objective:

To evaluate Floramac 10 for its potential to improve hair conditioning as measured by wet and dry comb force.

Method:

Leave-in hair creams with either 5% Floramac 10 or 5% phenyl trimethicone were applied to hair tresses. Wet and dry comb force measurements were taken at baseline and post hair cream treatment.

Results:

The leave-in hair cream containing **5% Floramac 10 reduced comb force up to 9 times more** than the hair cream containing phenyl trimethicone.



A = vehicle hair cream + 5% Floramac 10 / B = vehicle hair cream + 5% phenyl trimethicone

Vehicle Hair Cream (%wt/wt): Water (q.s.), Hydrogenated Sunflower Seed Oil Polyglyceryl-3 Esters (and) Hydrogenated Sunflower Seed Oil Glyceryl Esters (and) Cetearyl Alcohol (and) Sodium Stearoyl Lactylate (3.00%), Citric Acid (and) Water (1.20%), Cyclopentasiloxane (1.00%), Phenoxyethanol (and) Ethylhexylglycerin (0.90%), Hydrolyzed Soy Protein (0.65%), Carbomer (0.25%), Aminomethyl Propanol (0.24%), Fragrance (0.15%), and Disodium EDTA (0.10%).

Floratech Ingredient: Floramac 10

The ex vivo study of Floratech® test formulation (CTL_19-077) was conducted on naturally curly, brown, five inch long hair tresses (DeMeo Brothers Inc., Passaic, NJ) that were double bleached and washed with a 10% sodium lauryl sulfate solution prior to use in the study (n=8 tresses per test article). Treatment consisted of a 30 second rinse, one application of 1 mL of the test article per 1.5 g of hair, a 15 second massage, and detangling the hair using two comb strokes. Peak wet and dry comb force (gram-force) measurements were made using a Test Resources Q Series (100Q) Universal Testing Machine (TestResources, Inc.). The study was blinded and carried out under controlled temperature and humidity conditions. The inclusion of Floramac 10 resulted in statistically significant (p<0.05) reductions in wet and dry comb force compared to the inclusion of phenyl trimethicone and compared to baseline. (Clinical Study 19-077 - Phase I report available upon request.)