

Consumer Solutions

Get on the FastTrack to Dry with Silicones from Dow



Time-Saving and Beautifying Benefits

The advantages of fast hair-drying:

- Saving merely four minutes a day saves you a whole day a year!
- Less time spent under the blowdryer = less heat damage to your hair
- Silicone solutions for fast drying that come with other benefits – conditioning, repair, moisturizing, alignment, color protection – help you save time and improve your hair's appearance

Fast Drying is a Beautiful Thing

In today's fast-paced, hectic world, consumers are increasingly demanding



hair care products with high-efficiency and convenience benefits that will help them look good, feel good and save time.

While silicones are well-known for beautifying hair, they also can help speed drying on many hair types – from healthy hair to colored, bleached or damaged hair.

Suitable for use in both rinse-off and leave-in conditioners, select silicones from Dow can help you speed removal of bulk water during dripping or blotting, air-drying, or blow-drying.

Featured Products

- DOWSIL™ CE-8411 Smooth Plus Emulsion
- DOWSIL™ 5-7113 Silicone Quat Microemulsion
- XIAMETER™ MEM-0949 Cationic Emulsion
- DOWSIL™ HMW 2220 Non-Ionic Emulsion

REPRESENTATIVE FAST-DRYING TEST RESULTS

Speed Up Air-Drying

On a Variety of Hair Types

TREATMENT:

2% active silicone; tresses combed at each time interval; control (conditioner without silicone) vs. DOWSIL™ CE-8411 Smooth Plus Emulsion.

- Rinse-off conditioner (CPF 02195): 0.4 g/g hair
- Leave-in conditioner (CPF 02196): 0.1 g/g hair

RESULTS:

DOWSIL™ CE-8411 Smooth Plus Emulsion (2% active silicone) significantly improved hair-drying speed when used in both rinse-off and leave-in conditioners.

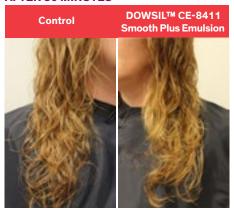
RINSE-OFF CONDITIONER ON SLIGHTLY BLEACHED HAIR — 1 HOUR



RINSE-OFF CONDITIONER
ON MEDIUM BROWN HAIR — 3 HOURS



AFTER 30 MINUTES



LEAVE-IN CONDITIONER
ON SLIGHTLY BLEACHED HAIR — 2 HOURS



RINSE-OFF CONDITIONER ON GRAY HAIR — 4 HOURS



AFTER 2.5 HOURS



Half Head Test

TREATMENT:

After shampooing the hair with a clarifying shampoo, 4 g of leave-in conditioner was applied to the wet hair on each side of the head. One side was treated with the control conditioner (no silicone), while the other side was treated with a conditioner containing DOWSIL™CE-8411 Smooth Plus Emulsion (CPF 02196). The hair was then brushed and allowed to air-dry.

RESULTS:

After application, the hair treated with DOWSIL™ CE-8411 Smooth Plus Emulsion was significantly easier to brush and visually showed faster drying compared to the control. After the hair was dry, the hair treated with DOWSIL™ CE-8411 Smooth Plus Emulsion had less frizz and more curl definition than the hair treated with the control.

Speed Up Blow-Drying

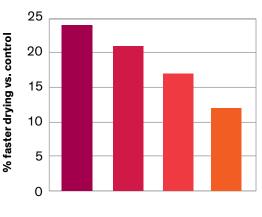
Using Leave-in Conditioners (CPF 02196)

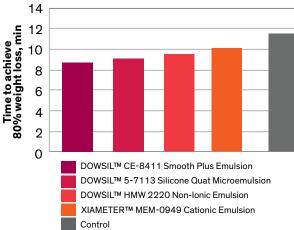
TREATMENT: 2% active silicone level,

0.1 g/g hair.

HAIR TYPE: Slightly bleached.

At 80% weight loss, tresses are visually dry.





All products are statistically different from the control at ≥95% confidence level.

RESULTS: Up to 25% faster drying was achieved using silicones from Dow.

Control

DOWSILTM CE-8411 Smooth **Plus Emulsion**

DOWSILTM 5-7113 Silicone Quat Microemulsion

AFTER 6 MINUTES OF BLOW-DRYING









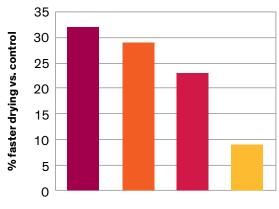


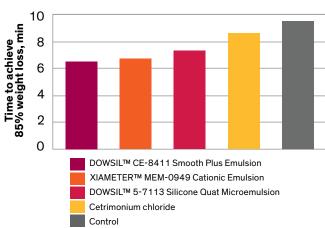


Using Rinse-off Conditioners (CPF 02195)

TREATMENT: 2% active silicone level, 0.3% active cetrimonium chloride, 0.4 g/g hair. HAIR TYPE: Slightly bleached.

At 85% weight loss, tresses are visually dry.





At 4, 6 and 8 minutes, all silicone products are statistically different from the control at a \geq 90% confidence level.

RESULTS: Up to 30% faster drying was achieved using silicones from Dow.

Control

XIAMETER™ **MEM-0949 Emulsion**

DOWSILTM 5-7113 Silicone Quat Microemulsion

DOWSILTM CE-8411 **Smooth Plus Emulsion**

TRESSES TREATED WITH CONDITIONER **AND BLOW-DRIED FOR 8 MINUTES**









Featured Products for Fast Drying

Product	INCI Name	Applications for Fast Drying	Additional Benefits
DOWSIL TM CE-8411 Smooth Plus Emulsion	Bis-Diisopropanolamino-PG-propyl Dimethicone/ Bis-Isobutyl PEG-14 Copolymer (and) Polysorbate 20 (and) Butyloctanol	 Rinse-off conditioners Leave-in conditioners 	 Hair repair Moisturization Volumizing Maintain volume on repeated use Shine Color protection Heat protection
DOWSIL TM 5-7113 Silicone Quat Microemulsion	Silicone Quaternium-16 (and) Undeceth-11 (and) Butyloctanol (and) Undeceth-5	 Rinse-off conditioners Leave-in conditioners 	 Hair repair Volumizing Hair strengthening Heat protection Color protection Wet and dry combing
XIAMETER™ MEM-0949 Cationic Emulsion	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	Rinse-off conditionersLeave-in conditioners	Reduced fly-awayWet and dry combingShineColor protection
DOWSIL™ HMW 2220 Non-Ionic Emulsion	Divinyldimethicone/Dimethicone Copolymer (and) C12-13 Pareth-23 (and) C12-13 Pareth-3	Leave-in conditioners	 Hair repair Maintain volume on repeated use Enriched foam lather Fragrance retention

For More Information

To download product data sheets and prototype formulations and to request product samples, visit **consumer.dow.com**.

Beauty Care That Does More

Dow is creating differentiating specialty silicone solutions that bring beauty to life in a way that has a lasting effect on your business and on the lives of consumers everywhere.

How Can We Help You Today?

Whether you need industry-leading innovation or greater cost-efficiency, Dow can help. Solutions from Dow are dedicated to meeting your needs for specialty materials, collaborative problem-solving and innovation support. Learn how we can help you bring BEAUTY WITH IMPACT to your products at **consumer.dow.com**. Or contact your local Dow sales representative.

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