

CHT

SMART CHEMISTRY
WITH CHARACTER.



CHT-BeauSil™ RE-AM0 919 EM

FIRST SUGAR-MODIFIED SILICONE
BASED ON RECYCLED RAW MATERIALS



chemical-concepts.com

800.220.1966

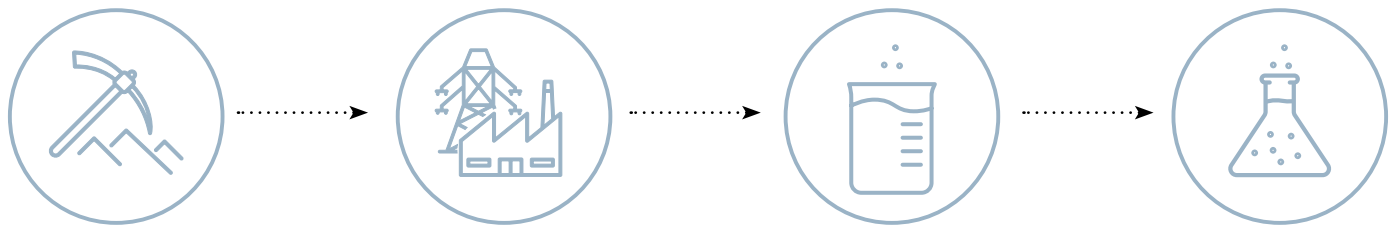
410 Pike Road • Huntingdon Valley, PA 19006

A RE-NEWED WAY TO MAKE SILICONE

Sugar-modified and recycled silicone for hair care. The next generation of sustainable silicones for perfect performance and a contribution to the future.

How normally silicones are made (simplified)

Mining of quartz/sand and chemical process into silicon as a base material. Further chemical reaction to the monomers of



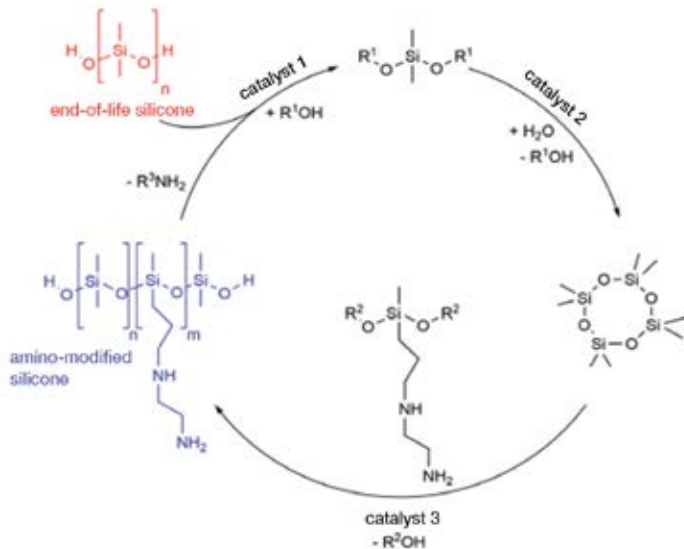
New sustainable way to make a silicone out of waste (simplified)

Cracking of silicone material e.g. molds, gaskets.
Chemical reaction into the new silicone for Hair Care.

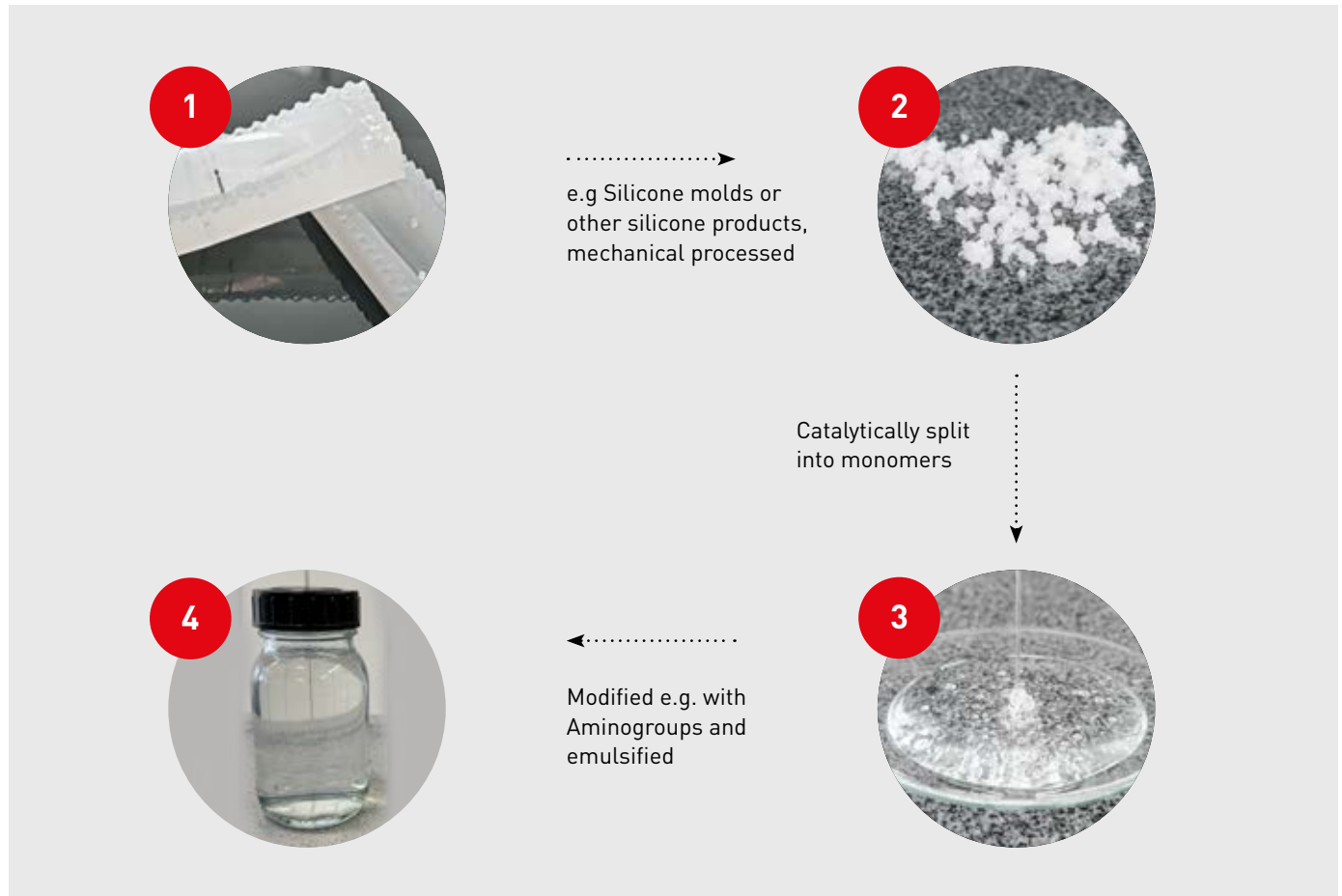


THE WASTE-TO-VALUE CONCEPT

The end-of-life polymers are catalytically split into silicone monomers, modified, and then finally polymerized into a new modified silicone in virgin quality, which can be used for Personal and Home Care products

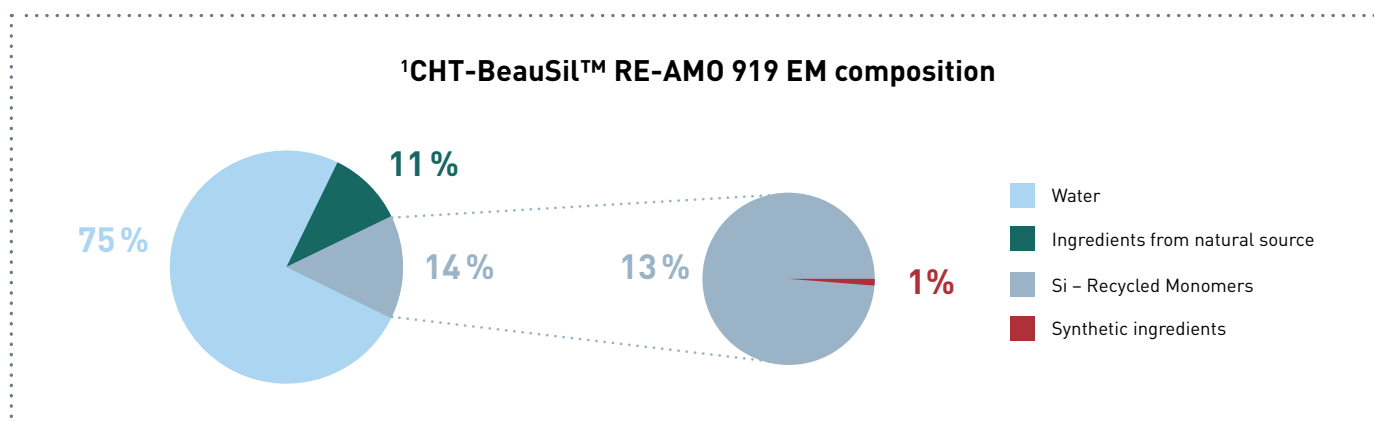


WASTE-TO-VALUE –
FROM END-OF-LIFE
SILICONE TO NEW,
AMINO-MODIFIED
SILICONE.



CHT-BeauSil™ RE-AMO 919 EM

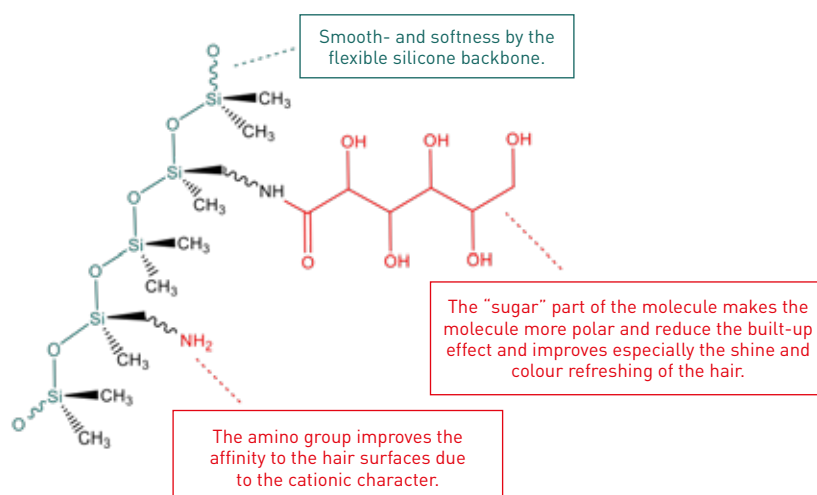
Type of product:	Microemulsion
INCI:	Gluconamido Amodimethicone (and) Coco glucoside
Cyclomethicone content:	D4, D5, D6 each below 0.1%
Preservative system:	Phenoxyethanol
Recommend applications:	▶ Shampoo transparent and milky ▶ Shampoo for normal and dry hair ▶ Leave-on products and treatments
Effects:	▶ Improves combing on dry and especially on wet hair ▶ No heavy feel on dry hair ▶ Natural softness ▶ Silky shine on hair ▶ Moisturized skin feel
Natural origin content:	85%
Sustainability factor: ¹	99%



Chemical structure

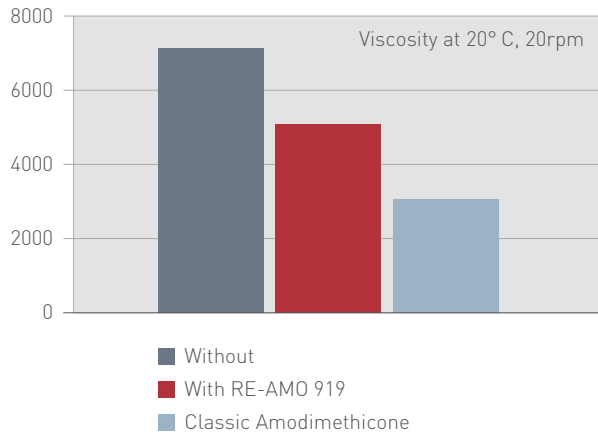
CHT-BeauSil™ RE-AMO 919

– Triple function in one polymer

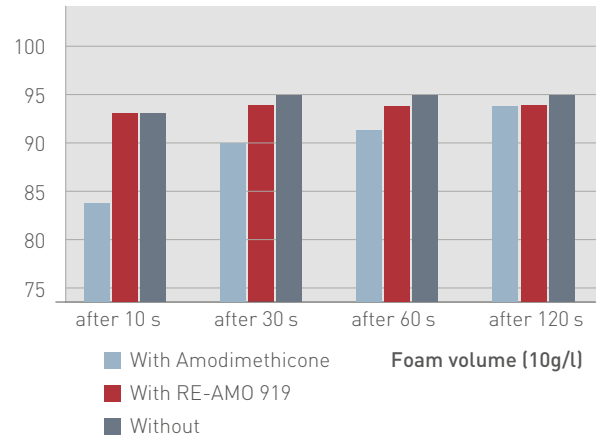


IMPACT ON VISCOSITY AND FOAM – NOT WITH CHT-BeauSil™ RE-AMO 919

Impact on viscosity

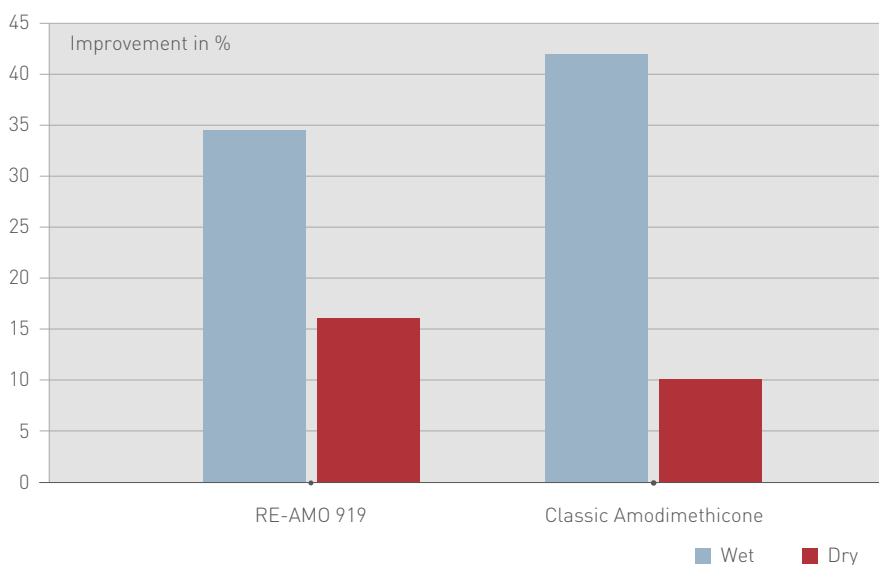


Foam volume (ml)



COMBING IMPROVEMENT ON INDIAN HAIR – CHEMICAL DAMAGE

Improvement of combing classic Amodimethicone vs RE-AMO 919

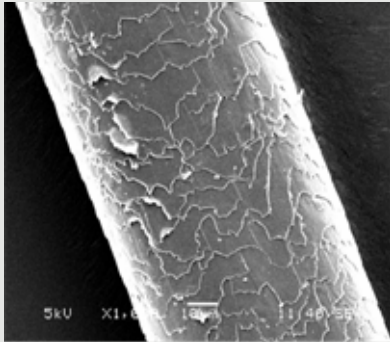


- ▶ CHT-BeauSil™ RE-AMO 919 EM is a bit weaker in the wet combing as the classic Amodimethicone, however on a good level
- ▶ CHT-BeauSil™ RE-AMO 919 EM has a better dry combing improvement as the classic Amodimethicone.

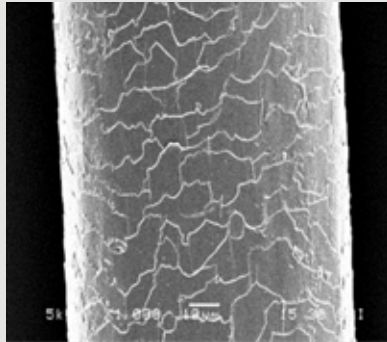
CHT-BeauSil™ RE-AMO 919 EM

THE NATURAL LOOK AND SOFTNESS

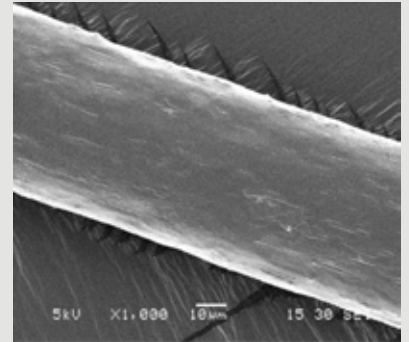
SEM 1000x before and after the treatment with a shampoo containing CHT-BeauSil™ RE-AMO 919 EM compared to a shampoo with Dimethiconol.



Hair before treatment shows scaly uneven structure. This structure can cause blocked hair and difficult combing as well as less shine.



Hair after the treatment shows an even and shiny structure. The **CHT-BeauSil™ RE-AMO 919 EM** keeps the natural structure without heaving down the hair. The result is a **natural look**.



The hair surface is heavily coated which is the result of the large Dimethiconol polymer. A strong build-up with greasiness and heavy hair will occur after multiple uses.



Performance of CHT-BeauSil™ RE-AM0 919 EM

Transparent mild shampoo for daily use

PHASE	TRADENAME	SUPPLIER	INCI / CHEMICAL	W/W %
A	Water Sodium EDTA		Water	to 100.00 0.10
B	Jaguar HP 105 Glycerin	Solvay Merck	Hydroxypropyl Guar Glycerin	1.20 3.00
C	Plantapon SF CHT-BeauSil™ RE-AM0 919 EM	BASF CHT	Sodium Cocoamphoacetat (and) Glycerin (and) Lauryl Glucoside (and) Sodium Cocoyl Glutamate (and) Sodium Lauryl Glucose Carboxylate Glucoamido amodimethicone (and) Coco- glucoside	15.00 2.50
D	Fragrance Euxyl K 700	Schülke	Preservative agent	q.s. 0.50
E	pH-control		Citric acid 10%	q.s.
				100.00

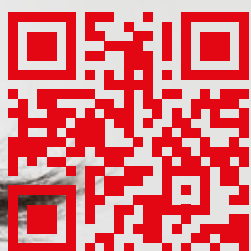
NATURAL LOOK AND SOFTNESS

Procedure

- ▶ Mix ingredients of phase A
- ▶ Blend ingredients of phase B and add to phase A
- ▶ Stir till the thickener is complete hydrated
- ▶ Add ingredients of phase C and blend
- ▶ Add phase D and stir till it is homogeneous
- ▶ Adjust pH to 5.5 with phase E

TECHNICAL DATA

Appearance	Clear liquid
pH-value	5.5
Viscosity	5.000 – 7.000 mPas
Stability	3 months at RT, 45°C, 7°C



Learn more: www.cht-silicones.com



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