

# TILAMAR® Quat 640

Ultimate conditioning and weightless feel



Today people expect hair care products to offer perceivable benefits for an ultimate look and feel that addresses their daily beauty aspirations.

TILAMAR® Quat 640 delivers ultimate conditioning performance and a weightless feel even after repeated leave-in applications. This ingredient is a highly charged cationic aqueous solution polymer of diallyl dimethyl ammonium chloride. Its ultimate conditioning performance is based on superior sensorial attributes and combability. Because it is easily removed without build-up, it leaves even fine hair looking and feeling weightless. Its low viscosity promotes easier handling and processing of the finished product.

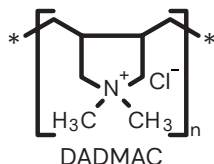
TILAMAR® Quat 640 is strongly recommended when extra caring properties are needed, for example for chemically treated hair, and for leave-in detangling products.

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# TILAMAR® Quat 640

|                      |                   |
|----------------------|-------------------|
| <b>Product name:</b> | TILAMAR® Quat 640 |
| <b>INCI name:</b>    | Polyquaternium-6  |
| <b>CAS number:</b>   | 26062-79-3        |
| <b>Product code:</b> | 5010204           |

**Chemical structure:**



## TILAMAR® Quat 2240

|                      |                 |
|----------------------|-----------------|
| <b>Appearance:</b>   | Clear liquid    |
| <b>Colour:</b>       | Yellowish       |
| <b>pH:</b>           | 5.0–7.5         |
| <b>Total solids:</b> | 34–36 % m/m     |
| <b>Viscosity:</b>    | 900–2.200 mPa.s |

## Unique features

- Ultimate conditioning based on superior combability and sensorial attributes
- Weightless feel as easy to be removed without build-up and leaves even fine hair looking and feeling weightless
- Low viscosity promotes easier handling and processing of a finished product

## Packaging

60 kg and 120 kg plastic drums  
1.000 kg pallet container

## Application and benefits for hair care products

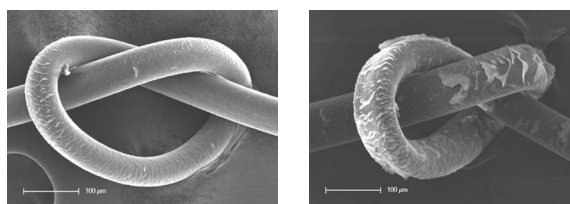
Shampoos, conditioners, treatments, colorants and styling products

- Confers excellent wet and dry combability
- Delivers extraordinary detangling properties
- Strong results in wet and dry feel
- Contributes to glossy and silky feel
- Imparts excellent lubricity and feel on dry tips

Concentration recommendations: 1% as product in shampoo/conditioner; 3% as product in treatments

## SEM assessment of wash out capability

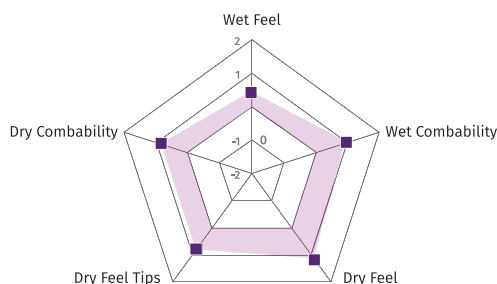
SEM pictures confirm the excellent wash out performance of TILAMAR® Quat 640 without build-up effect that is significantly better than industry benchmarks.



Hair switches were dipped into a water solution of both a 1% TILAMAR® Quat 640 and 1% of the benchmark polymer for 10 minutes. Afterwards the switches were removed and washed with warm water for 90 seconds.

## Sensory assessment in shampoos

Sensory assessment reveals excellent wet and dry combability plus strong results in the dry feel of hair including tips compared to industry benchmark.



2g of twice bleached Caucasian hair switches were used. Switches were pre-washed with standard shampoo (10% SLES) and dried for 24 hours at 20°C/65% rel. humidity. Afterwards each switch was washed two times with 0.25 ml test shampoo/g hair (30 seconds foaming/ 90 seconds rinsing). Test shampoos had the same base formulation and contain 1% of polymer solution, which means 0.35% TILAMAR® Quat 640 and 0.4% benchmark.

For more information, please visit <https://www.dsm-firmenich.com/en/businesses/perfumery-beauty/beauty-care.html>

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