

TILAMAR® *Quat* 2240

Deep conditioning with a weightless feel for clear shampoos



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

TILAMAR® Quat 2240 provides deep conditioning with a weightless feel and can be readily formulated for clear shampoos. The polymer comprises diallyl dimethyl ammonium chloride and acrylic acid as a highly charged aqueous solution. Its deep conditioning performance is based on superior sensorial attributes delivering a soft feel to both wet and dry hair. The product is easily removed and displays none of the build-up which can leave hair looking weighed down.

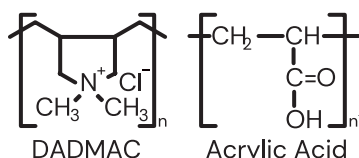
TILAMAR® Quat 2240 offers formulations that are clear and transparent even at a low pH. This makes it particularly suitable for shampoos designed to deliver tangible and visible benefits.

dsm-firmenich 

TILAMAR® Quat 2240

Product name:	TILAMAR® Quat 2240
INCI name:	Polyquaternium-22
CAS number:	53694-17-0
Product code:	5014581

Chemical structure:



TILAMAR® Quat 2240

Appearance:	Clear to hazy, viscous liquid
Colour:	White to off-white
pH:	4.0–6.0
Total solids:	39–43% m/m

Unique features

The extreme and superior wet combability of TILAMAR® Quat 2240 results in excellent sensorial attributes for both wet and dry hair. TILAMAR® Quat 2240 has an excellent wash out performance that prevents build-up. The formulation appears clear and transparent at a typical pH of 5. The removability is excellent and hence does not lead to a build-up effect.

Packaging

60 kg and 120 kg plastic drums
1.000 kg pallet containers

Application and benefits for hair care products

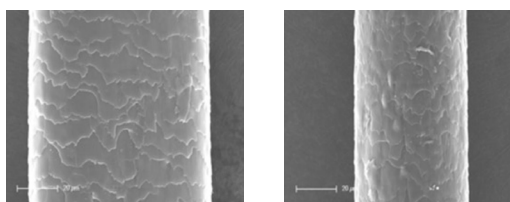
Shampoos, conditioners, treatments, colorants and styling products

- Confers excellent wet and dry combability
- Provides silky feel, luster and softness
- Delivers superior detangling properties
- Strong results in wet and dry feel
- Imparts excellent lubricity and feel on dry tips
- Gives clear and transparent formulations

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

SEM assessment of wash out capability

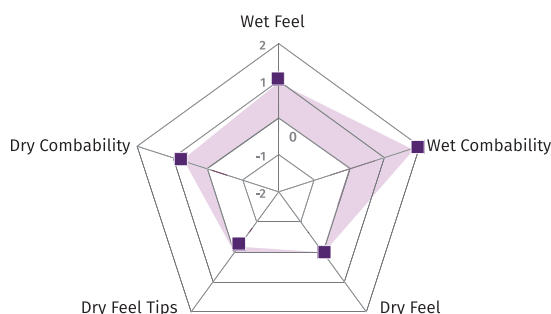
SEM pictures confirm the excellent wash out performance of TILAMAR® Quat 2240 without build-up effect compared to industry benchmark.



Hair switches were dipped into a water solution of both a 1% TILAMAR® Quat 2240 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 results in extreme wet feel and dry combability as well as a superior wet combability 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 0.4% TILAMAR® Quat 2240 and 0.4% industry benchmark.

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

Europe	Asia Pacific	North America	Latin America	China
dsm-firmenich Nutritional Products Europe Ltd Personal Care Wurmisweg 576, CH-4303 Kaiseraugst Switzerland Phone: +41 (61) 815 8888 Email: beautycare.emea-info@dsm-firmenich.com	dsm-firmenich Singapore Industrial Pte Ltd. trading as dsm firmenich Nutritional Products Asia Pacific 30 Pasir Panjang Road Mapletree Business City #13-31 Singapore 117440 Phone: +65 6632 6617 Fax: +65 6632 6600 Email: beautycare.apac-info@dsm-firmenich.com	dsm-firmenich Nutritional Products, LLC 45 Waterview Boulevard, Parsippany, NJ 07054 United States of America Phone: +1 800 526 0189 Fax: +1 973 257 8580 Email: beautycare.na-info@dsm-firmenich.com	dsm-firmenich Produtos Nutricionais Brasil S.A. Av. Juscelino Kubitschek, 1909, Torre Sul, 5o andar 03178-200 Brasil Phone: + 55 11 3760 6409 Fax: + 55 11 3760 6492 Email: beautycare.latam-info@dsm-firmenich.com	No. 476, Libing Road, Zhangjiang Pudong, Shanghai 201203 China Phone: +86 21 6171 8240 Fax: +86 21 61716266 Email: beautycare.gc-info@dsm-firmenich.com

Disclaimer

dsm firmenich has used diligent care to ensure that the information provided herein is accurate and up-to-date, however, dsm firmenich makes no representation or warranty, either expressly or implied, of the accuracy, reliability, or completeness thereof. The information provided herein contains scientific and product information for business to business use and does not constitute or provide scientific or medical advice, diagnosis or recommendation for treatment. Country or region-specific information should be considered when labeling or advertising to final consumer. In no event shall dsm firmenich be liable for any damages arising from or reliance upon, or use of, any information provided herein. The content of this document is subject to change without further notice. Please contact your local dsm firmenich representative for further details. All trademarks listed in this document are either (registered) trademarks of, or trademarks licensed by, the dsm firmenich group of companies in the Netherlands and/or other countries, unless explicitly stated otherwise.