

TILAMAR® OP 40

One-for-all with improved
long-term stability

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dsm-firmenich ●●●

TILAMAR[®] OP 40

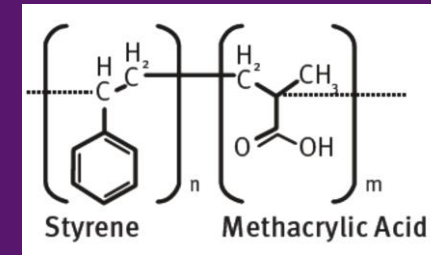
One-for-all by improved formulation stability

INCI: Styrene/Acrylates Copolymer

CAS Number: 9010-92-8

Key benefits:

- Fast & easy product exchange
- One-for-all by improved formulation compatibility
(high salt, cationic, low viscosity, etc)
- Better formulation stability
- Preservative-free



TILAMAR® OP 40

One-for all by improved formulation stability

High Salt Compatibility

Competitor*



TILAMAR® OP 40

Consumer benefits

- Creamy & nourishing texture
- Improved color effects

TILAMAR® OP 40 used today in ...

- Body wash
- Shower gel
- Shampoo
- Hand wash
- Baby wipes
- Detergents (liquid)
- Softeners

* currently leading market technology

TILAMAR® OP 40

Specification vs Benchmark

	TILAMAR® OP 40	Competitor 1
Color	White to light greenish, dispersion	White, dispersion
Total Solids	39–41%	40%
pH	2.0 – 3.0	2.0 – 2.5
Average particle size (µm)	0.17	0.22
Viscosity (25°C, Brookfield)	< 50	< 50
Density (g/ml)	1.03	1.03
Preservatives	none	paraben-free

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Stability in regular surfactant systems

	Low-viscosity	Normal-viscosity
Sodium Laureth Sulfate	35%	35%
Cocamidopropyl betaine	5%	5%
Preservative	0.8%	0.8%
Sodium Chloride	–	1.5%
TILAMAR® OP 40	0.7%	0.7%
Water	ad 100	ad 100
Viscosity	~100 mPa.s	3500 mPa.s

All formulations were stored at 4°C, room temperature and at 43°C for 6 months.
 No stability issues were observed.

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Stability in salt solution

0.8% Opacifier dispersion in a x% sodium chloride solution.

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salt %	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%	3.5%
after 24h	☑	☑	☑	☑	☑	Ø	Ø
after 6 weeks	☑	☑	Ø	Ø	Ø	Ø	Ø
after 6 months	☑	☑	Ø	Ø	Ø	Ø	Ø

Benchmark

salt %	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%	3.5%
after 24h	☑	☑	☑	☑	☑	☑	☑
after 6 weeks	☑	Ø	Ø	Ø	Ø	Ø	Ø
after 6 months	Ø	Ø	Ø	Ø	Ø	Ø	Ø

These tests were carried out at room temperature.

TILAMAR® OP 40

Stability in a polyquaternium-7 solution

0.8% Opacifier dispersion in a x% Polyquaternium-7 (40% solids) solution.

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cationic %	0.25%	0.5%	0.75%	1.0%	1.25%	1.50%	2.0%	3.0%
after 24h	✓	✓	✓	✓	✓	✓	✓	✓
after 6 weeks	✓	✓	✓	✓	✓	✓	✓	✓
after 6 months	✓	✓	✓	✓	✓	✓	✓	✓

Benchmark

cationic %	0.25%	0.5%	0.75%	1.0%	1.25%	1.50%	2.0%
after 24h	✓	✓	✓	✓	✓	✓	✓
after 6 weeks	∅	∅	∅	∅	∅	∅	∅

These tests were carried out at room temperature.

We would like to help you to make **TILAMAR® OP 40** the **most convenient solution** ever for all your rinse-off products with a **creamy** and **nourishing texture**.



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