

MASSOCARE *Rheology Modifiers*

Thickeners, suspenders and stabilisers

The **texture** of a personal care formulation is crucial as the consumer is noticing and evaluating it since the first application. Therefore, adjusting the rheology with the correct rheology modifier is very important in order to provide the desired effects.

MASSOCARE Rheology Modifiers are a wide range of **thickeners**, which enable formulators to adjust the final viscosity of their creations in order to meet the needs and expectations of the final users. They provide also additional **stability** to the formulations, and some of them have also **suspending** properties.

MASSOCARE Rheology Modifiers include **non ionic**, **cationic** and anionic **thickeners**. The specific properties, compatibility, suitable pH, formulation tips... of each individual product are described in detail.

MASSOCARE Rheology Modifiers are suitable for different final applications:

- ◆ skin care
- ◆ hair care
- ◆ toiletries



Discover **MASSOCARE Rheology Modifiers**

MASSOCARE Rheology Modifiers

Selection Guide



PRODUCT RANGE: Physical & Chemical Characteristics

	MASSOCARE								
	1823V	TCK1	TCK2	TCK A1	TCK A2	TCK A5	TCK A305	TCK SP	TCK C1
Description	PEG-150 Distearate in water	Polyacrylic acid powder	Acrylic polymer in water	Acrylic copolymer in mineral oil	Acrylic copolymer in mineral oil	Acrylic copolymer in hydrogenated polydecene	Polyacrylamide in C13-14 Isoparaffin	Polyacrylic acid powder	Acrylic copolymer in mineral oil
Appearance	Yellowish liquid	White granulated powder	Milky, white liquid	White liquid	White milky viscous liquid	White milky viscous liquid	Translucent viscous liquid	Fine powder	White milky liquid
Ionic Character	Non-ionic	Anionic	Anionic	Anionic	Anionic	Anionic	Anionic	Anionic	Cationic
Solids content (%)	20.0 - 25.0	93.0 - 95.0	29.0 - 31.0	55.0 - 60.0	55.0 - 60.0	55.0 - 60.0	45.0 - 55.0	85.0 - 100.0	50.0 - 55.0
Viscosity (mPa.s)	1700 approx.	45.000 - 65.000 (0.5% sol., pH: 7.5 -8.0)	Max. 100	15.000 - 25.000 (1.0% sol.)	20.000 - 32.000 (1.0% sol.)	15.000 - 25.000 (1.0% sol.)	18.000 - 32.000 (2.0% sol.)	25.000 - 35.000 (1.0% sol.)	30.000 - 45.000 (2.0% sol.)
pH	-	2.7 - 3.7 (0.5% sol.)	1.5 - 3.5	5.0 - 7.0 (1% sol.)	6.0 - 8.0 (1% sol.)	5.0 - 7.0 (1% sol.)	5.0 - 7.0 (2% sol.)	6.0 - 7.0 (1% sol.)	3.5 - 5.0 (2% solution)
INCI Name	Polysorbate 21, Laureth-4, PEG-150 Distearate, Aqua	Carbomer	Acrylates Copolymer	Sodium Polyacrylate, Paraffinum Liquidum, Trideceth-6	Acrylamide/ Sodium Acrylate Copolymer, Paraffinum Liquidum, Trideceth-6	Sodium Polyacrylate, Hydrogenated Polydecene, Trideceth-6	Polyacrylamide, C13-14 Isoparaffin, Laureth-7	Sodium Polyacrylate	Polyquaternium-37, Paraffinum Liquidum, Trideceth-6

MASSOCARE *Polymeric Rheology Modifiers*



Selection Guide

PRODUCT RANGE: In use data									
MASSOCARE									
	1823V	TCK1	TCK2	TCK A1	TCK A2	TCK A5	TCK A305	TCK SP	TCK C1
Application	Toiletries	Skin Care Hair Styling	Toiletries	Skin Care	Skin Care	Skin Care	Skin Care	Skin Care	Skin Care
Functionality	Thickener	Thickener	Thickener Suspender	Thickener	Thickener	Thickener	Thickener	Thickener	Thickener
Dose	0.5 - 4.0%	0.2 - 1.0%	5.0 - 10.0%	0.5 - 5.0%	0.5 - 5.0%	0.5 - 5.0%	0.5 - 5.0%	0.2 - 2.0%	0.5 - 5.0%
Clear Formulations	Yes	Yes	Yes	No	No	No	No	No	No
pH Tolerance	4.5 - 10.0	5.0 - 12.0	4.0 - 11.0	6.0 - 11.0	6.0 - 10.0	6.0 - 11.0	3.0 - 11.0	5.5 - 11.0	2.5 - 11.0
Electrolytes Compatibility	*****	****	*****	**	**	**	****	***	***
Alcohol Compatibility	**	****	**	**	**	**	***	**	**
Neutralisation	No	Yes	Yes	No	No	No	No	No	No
Formulation Tips	Soluble (with haze) in ethanol, white spirit, mineral oil Dispersible in water, paraffin Insoluble in toluene, peanut oil Synergistic effect with NaCl Add at the end of the formulation under slow stirring	Dispersible in water Predisperse M-TCK1 in water under moderate stirring and with slow addition of the product Neutralise once the emulsion is formed.	Soluble in water Synergistic effect with NaCl Add M-TCK2 to the water, then add the primary surfactants (anionic). Neutralize to pH 6.0 – 6.5 Add the rest of surfactants and actives	Dispersible in water Add M-TCK A1 at the end of the emulsion homogenization step and homogenise for 1½ minutes more (Silverson: 3.000rpm)	Dispersible in water Add M-TCK A2 at the end of the emulsion homogenization step and homogenise for 1½ minutes more (Silverson: 3.000rpm)	Dispersible in water Add M-TCK A5 at the end of the emulsion homogenization step and homogenise for 1½ minutes more (Silverson: 3.000rpm)	Dispersible in water and oil Add M-TCK A305 at the end of the emulsion homogenization step and homogenise for 1½ minutes more (Silverson: 3.000rpm)	Dispersible in water Thickening effect with solvents (glycerine, ethanol, propylene glycol, isopropanol) Disperse M-TCK SP in the water phase prior to the emulsification	Dispersible in water Add M-TCK C1 at the end of the emulsion homogenization step and homogenise for 1½ minutes more (Silverson: 3.000rpm)

***** Excellent

**** Very Good

*** Good

** Fair

* Poor

www.cqmasso.com/fcr

COMERCIAL QUÍMICA MASSÓ, SA

SPAIN

Viladomat, 321, 5a
08029 Barcelona
tel: +34 93 495 25 00
boncins@cqm.es

FRANCE

14 rue Gorge de Loup
69009 Lyon
tel: +33 (0)4 78 64 00 33
gcombes@cqmasso.com

POLAND

ul. Ostrobramska 101
04-041 Warszawa
tel: + 48 22 4656 550
aadamska@cqm.pl

CZECH REPUBLIC

Vyskočilova, 741/3
140 00 Praha 4
tel: +420 241 006 570
mjedlicka@cqm.cz

HUNGARY

Fertő u. 8
1107 Budapest
tel: 433 4849
felekes@cqm.hu