Thickener for fabric softener

-Resoft 909



Product introduction

Resoft 909(INCI name: Acrylamide/Acryloyloxyethyl Trimethyl Ammonium Chloride Copolymer & Paraffinum Liquidum & C11-15 Pareth-7)



Cationic thickener, used for fabric softener, can give the end product a thick appearance



Liquid state, easy to use, no need neutralize and premix



Easy to disperse in cold water and can be added in any step of production



Shows good compatibility with esterquat



Specification

Index	Specification
Appearance (25°C)	Milky white liquid
Solid content (105°C, 3h, %)	60.0-75.0
pH (2% aqueous solution)	3.0-6.0
Emulsion viscosity (25°C, M3V20, mPa·s)	500-4500
2% aqueous solution viscosity(25°C, M4V12, mPa·s)	3000-11000

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Application



Fabric softener

Cationic surfactant is the main raw material for fabric softener, which can neutralize the residue of liquid laundry detergents. After washing, it can make the fiber surface soft, smooth, antistatic and not easy to stain ash. Resoft 909 is a cationic thickener suitable for cationic system. It can prepare efficient fabric softener when used with esterquat.

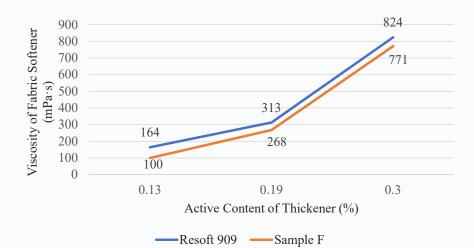
Toilet Cleaner

✓ Toilet cleaner without viscosity will make it difficult to hang on the wall, thus affecting the cleaning ability. Resoft 909 has thickening effect on acidic system and can be used with hydrochloric acid or citric acid to prepare toilet cleaner with certain viscosity.





Thickening properties



	Thickener	Dosage (%)	Viscosity (25°C, M2V30,
			mPa·s)
	Resoft 909	0.8	824
A	Sample F	0.53	771
В	Resoft 909	0.5	313
В	Sample F	0.33	268
С	Resoft 909	0.35	164
	Sample F	0.23	100

Reachin

Reference formula

Fabric Softener		
	Ingredient	Percentage
٨	Water	41.4
А	Requat EQ90	4.6
D	Water	To 100
В	Thickener	q.s
С	MIT	0.1

Conclusion : The application performance is evaluated by the above formulation and procedure with the same active of the thickener. The data shows a better thickening efficiency of Resoft 909 compared with sample F. (Sample F is the same type of product of competitor).

Reference formula

	Fabric Softener		
	Ingredient	Percentage	
A	Water	41.4	
	Ammonium Dipalmitate Ethyl Hydroxyethyl Methyl Sulfate (EQ)	4.6	
В	Water	To 100	
	Acrylamide/Acryloyloxyethyl Trimethyl Ammonium Chloride Copolymer & Paraffinum Liquidum & C11-15 Pareth-7 (Resoft 909)	0.4	
С	Methylisothiazolinone (MIT)	0.1	
	Frangrace	q.s	

Reachin

Procedure :

1. Add part A into vessel 1 and heat to 50-55°C, stir them until paste dissolves, then cool down to room temperature.

- 2. Add part B into vessel 2 with stirring until uniform.
- 3. Add part A to part B with stirring until uniform.
- 4 Gradually add the remaining ingredients and stirring until uniform.
- 5. Testing and packing.

pH (10% aqueous solution)	3.0
Viscosity (25°C,M2V30,	210
mPa·s)	

Reference formula

Toilet Cleaner		
	Ingredient	Percentage
	3% Citric Acid	To 100
А	Acrylamide/Acryloyloxyethyl Trimethyl Ammonium Chloride Copolymer & Paraffinum Liquidum & C11-15 Pareth-7 (Resoft 909)	1.5
В	Frangrace	q.s

Procedure :

1. Add part A into the vessel with stirring until uniform.

2. Add the remaining ingredients into the vessel with stirring until uniform.

3. Testing and packing.

pН	2.5
Viscosity (25°C, mPa·s)	920

Reachin

Conclusion

Resoft 909 (INCI name: Acrylamide/Acryloyloxyethyl Trimethyl Ammonium Chloride Copolymer & Paraffinum Liquidum & C11-15 Pareth-7)

1. A liquid, easily soluble in water and no neutralization cationic thickener

2. Excellent compatibility with EasterQuat, highly effective thickening fabric softener and toilet cleaner.



ΤΗΑΝΚ ΥΟ

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