



HOUSEHOLD / DETERGENCY Portfolio

OPM544 (STYRENE ACRYLATES COPOLYMER)

1. Objective

- Improve the appearance through uniform opacity to transparent or colorful formulations in non-ionic and anionic systems.

2. Characteristics

- Viscosity: <100 cps
- pH: 2.0-3.5
- Actives: 39-41%
- Dosage: 0.2-1.0% of commercial products (*with previous dilution at 25%*)



Liquid Soap
Base

Liquid Soap Base
+ 1% OPM544

OPG854 (STYRENE ACRYLATES COPOLYMER / DECYL GLUCOSIDE)

1. Objective

- Improve the appearance through uniform opacity to transparent or colorful formulations in non-ionic and anionic systems.

2. Characteristics

- Viscosity: <100 cps
- pH: 3.5-5.0
- Actives: 42-44%
- Dosage: 0.2-1.0% of commercial products

No need of previous dilution, applicable at any phase of the formulation.



Liquid Base

Liquid Base
+ 1% OPG854

OPG877C (STYRENE ACRYLATES COPOLYMER / COCO GLUCOSIDE)

1. Objective

- Improve the appearance through uniform opacity to transparent or colorful formulations in non-ionic and anionic systems.

2. Characteristics

- Viscosity: <100 cps
- pH: 3.5-5.0
- Actives: 42-44%
- Dosage: 0.2-1.0% of commercial products

No need of previous dilution, applicable at any phase of the formulation.



Liquid Base

Liquid Base
+ 1% OPG854

Hysuau CC1000 (ACRYLATES COPOLYMER)

1. Description

- Crosslinked Anionic Polymer in Aqueous emulsion.
- Compatible with a variety of cationic conditioning polymers in anionic / amphoteric surfactant systems.

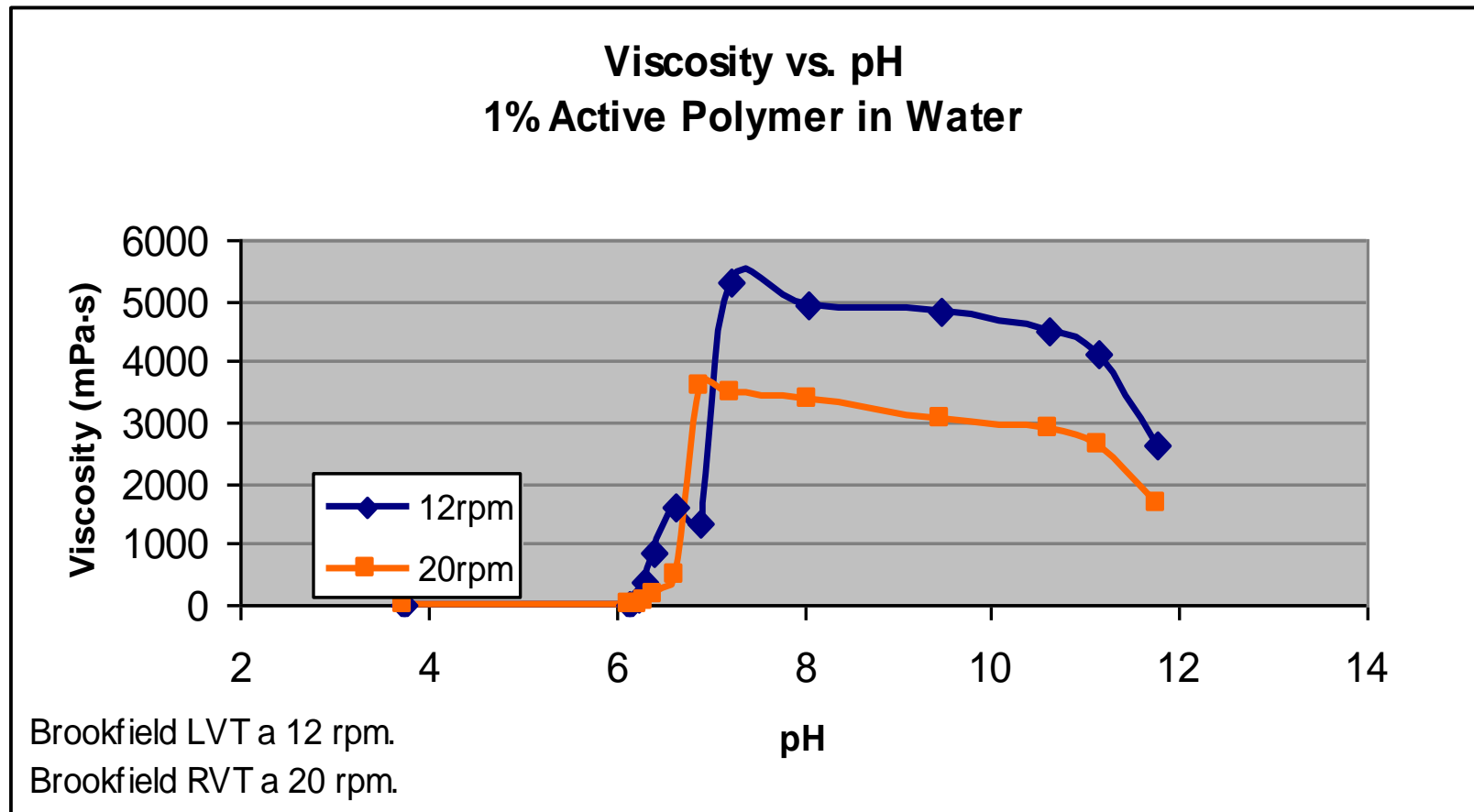
2. Characteristics

- Viscosity: <100 cps
- pH: 2.1-4.0
- Actives: 29-31%
- Dosage: 7%-10%

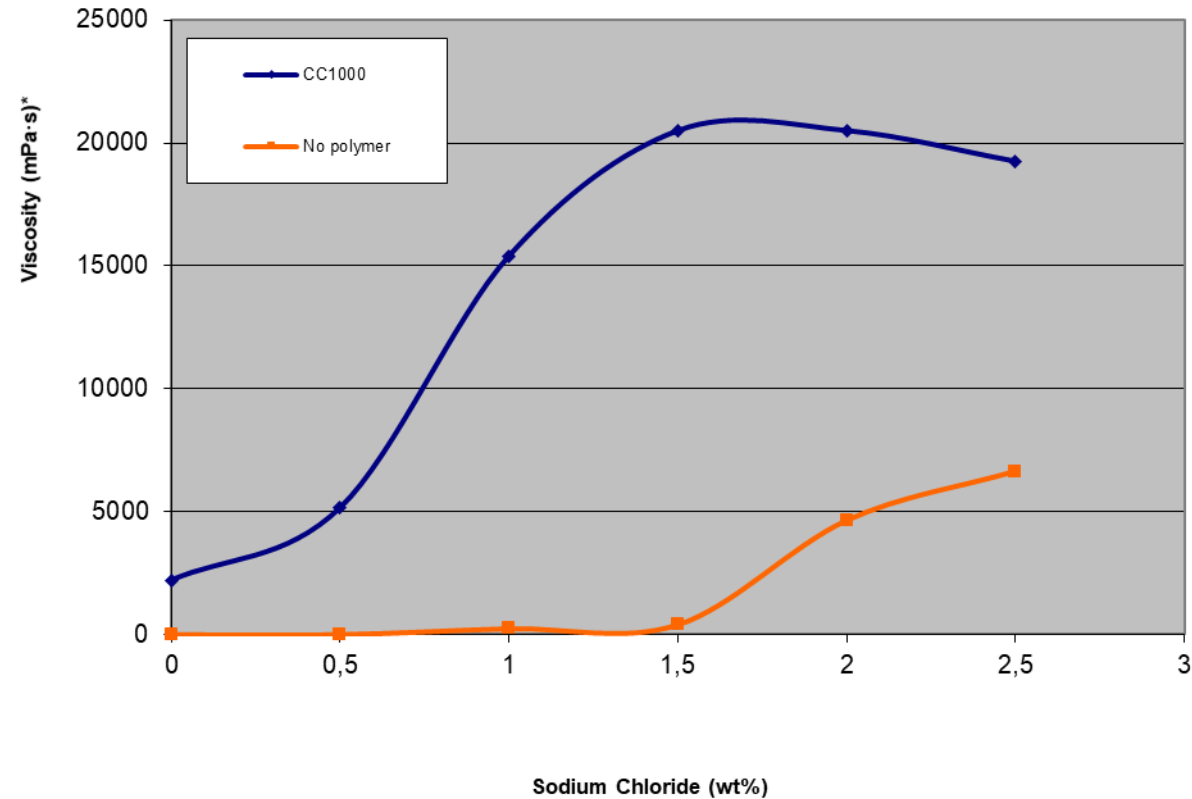
What makes it special?

- High Suspending, Stabilizing and Thickening Agent
- Provides Transparent Formulations
- Synergistic Thickening with Salt
- Excellent stability in surfactants
- “Back-Acid” thickening (adding citric or other acid to a neutralized system), resulting in a final product down to pH 3.8.

As the polymer is neutralized, the system changes from a milky emulsion to a clear gel



Effect of Salt



* Brookfield RVT @ 20 rpm
pH= 5,5

Hysuau AQ1300

1. Description

- Emulsified cationic acrylamide copolymer in oil.
- Cationic thickener for acid aqueous compositions

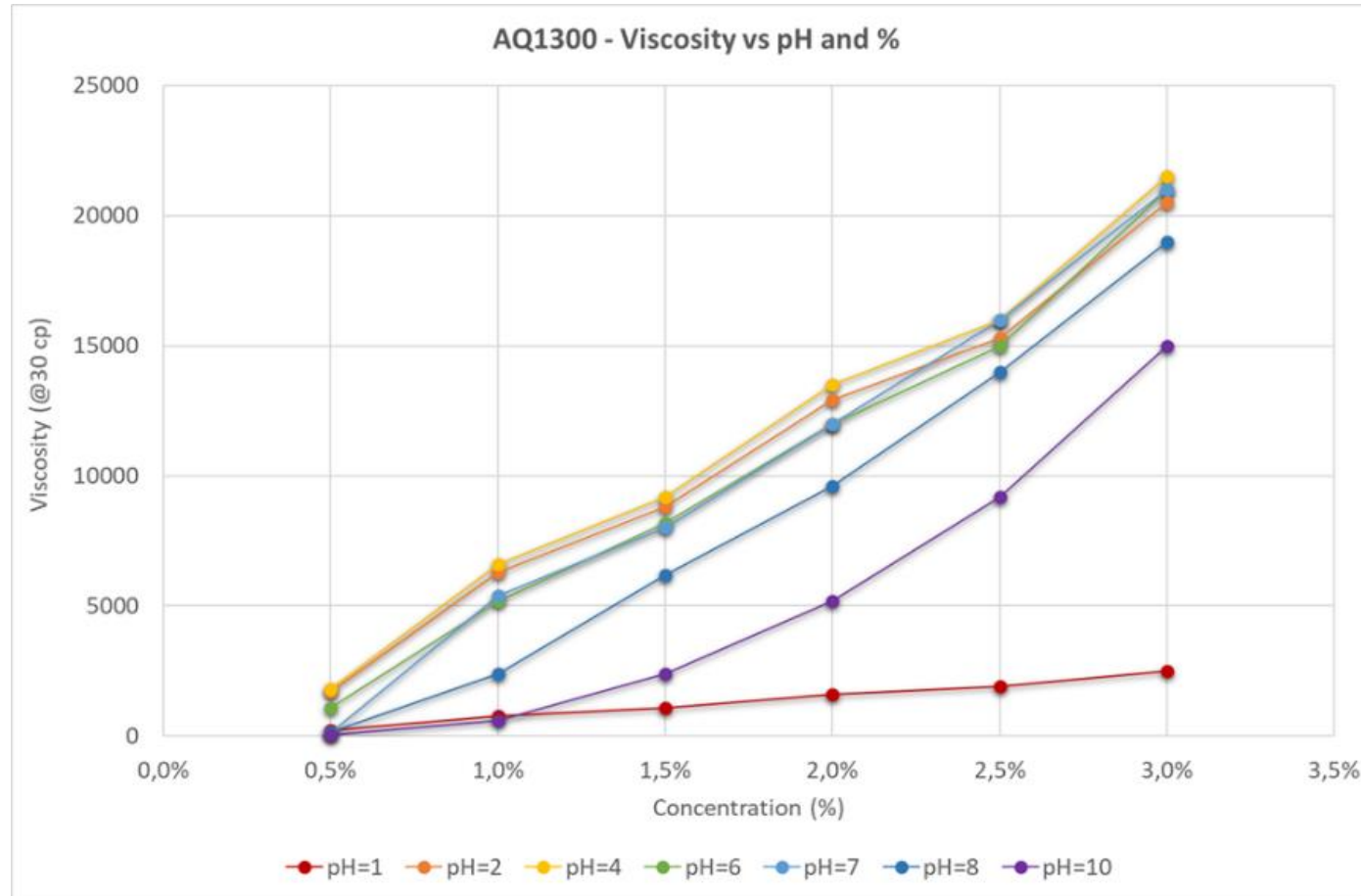
2. Characteristics

- Viscosity: 200-2000 cps
- pH: 3.0-5.0
- Actives: 55-57%
- Dosage: 0.1-5%

What makes it special?

- Compatible with cationic surfactants, esterquats and amidoamines
- Can be added at any point of the mixing process.
- No neutralization.
- No temperature sensitivity.
- Superior dispersion and performance than Modified Celluloses or Modified Starch.
- **Provides richer appearance, more durable softening and silky feeling.**

Compatible from pH 2 to pH 10



Fabric Softener Formulation

- Softener formulation for generating 100 grams is done in this way: (prepare two separated mixers)
 - **Mix 1:** 74 g water and 6 g esterquat at temperature around 48 - 52 °C during 25 -30 minutes.
Keep on stirring until full homogenization.
 - **Mix 2:** 19,6 g water and 0,4 g AQ1300 at 300-500 rpm at room temperature for 20 minutes.
Keep on stirring until full homogenization.
 - Once the mixes are homogenous the mix 2 is added over the mix 1 at room temperature during 15 -20 minutes.

Components	%
H ₂ O	93,6
Cationic Surfactants (Esterquat)	6
Thickener (Hysuau AQ1300)	0,4

THANK YOU