

### EBCALAN 2500

**EBCALAN 2500** is a homo-polymer of Acrylic with an optimized molecular weight to be used in industrial and institutional detergents. **EBCALAN 2500** shows an excellent stability in hypochlorite solution which makes it more suitable than traditional Acrylic/Maleic copolymer in detergents formulations that includes chlorine releasing agents.

#### Chemical & Physical Properties:

<b>Chemical nature</b>	:	Sodium Salt of acrylic acid homo-polymer
<b>Appearance</b>	:	Colorless / Pale yellow - Viscous Liquid
<b>Solid content</b>	:	(45 ± 1) %
<b>PH (10% soln. @ 23°C)</b>	:	7-9
<b>Viscosity (Brookfield; as is @ 23°C</b>		
– spindle No. 4 @ 20 rpm)	:	≤ 1500 mPas
<b>Average molecular weight</b>	:	8,000-10,000
<b>Acrylic acid residual</b>	:	≤ 100 ppm

#### Applications & Benefits:

**EBCALAN 2500** molecular weight and monomers ratios delivers optimum performance in both laundry and ware wash application for the following reasons:

- **EBCALAN 2500** acts as anti-precipitator by increasing solubility of inorganic salts (carbonates, sulfates of Ca and Mg ions) in wash bath, preventing its deposit on fabrics or dishes.
- **EBCALAN 2500** helps in crystal distortion as the polymer gets entrapped into crystal lattices facilitating its breakage. And this will minimize the adherence of salts on fibers and facilitate their elimination by rinsing.
- **EBCALAN 2500** polymer is an excellent dispersant for proteinaceous stains that have been previously removed from fabrics.
- **EBCALAN 2500** polymeric nature increases the binding properties resulting in producing more homogeneous and less dusty mixture.

**EBCALAN 2500** can be used in non-phosphate or reduced phosphate laundry, industrial and institutional formulations to control the formation of insoluble scale (encrustation) and maintain fabric whiteness. The polymer delivers the following advantages:

- **Crystal growth modification**, leading to reduction in the level of insoluble carbonates and silicates scales formed during the washing process.
- **Excellent dispersant**, helping in controlling the deposition of insoluble salts on fabrics, machine components (heating elements),
- **Processing aid** in the production of powder detergents; reduces the number of fines and dusting subsequently, lower the energy consumption.
- **Incrustation inhibitor**, for phosphate free or low phosphate detergents.

**EBCALAN 2500** offers the formulator improved performance, in addition to economic advantages, by reducing the level of TKPP needed in the dishwashing detergent formulation.

**EBCALAN 2500** is more suitable than traditional Acrylic/Maleic copolymer such as **EBCALAN 2000** in detergent formulation which has chlorine releasing agents as it shows an excellent stability in hypochlorite solution and has a minimal effect on the available chlorine in the liquid formulation, compared to a phosphonate and conventional Acrylic/Maleic copolymer.

It is recommended to use **EBCALAN 2500** in a range of 1 – 5 % of the total formulation.

**EBCALAN 2500** is useful, also, as water treatment agent in boiler feed water, cooling water, air conditioning water, circulation water, commercial water systems and, waste water treatments.

**Storage & Validity:**

- This product has a shelf life of 12 months in the original sealed package at ambient temperature.
  - The container should be closed tightly after each use.
  - The Technical data ascertained by our quality control laboratory at the time of product release may vary according to the storage time and storage conditions and may deviate from the stated limits.
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**Packing:**

250 kilogram plastic drums, 1200 kilogram IBC Tank, or 20MT ISO Tank.

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