



# CESMETIC 4W

## TECHNICAL BULLETIN

**CESMETIC 4W** is a self-hydrating, purified non-ionic derivative of guar gum, which performs as an excellent thickener in cosmetic formulations and as an O/W emulsion stabilizer. Thanks to its polymeric structure this guar derivative is compatible with the skin leaving a soft silk feeling after application. It is ideal for conditioners and creams and, when used in shampoos and liquid soaps, **CESMETIC 4W** presents a foam stabilizing action stronger than that of other natural or synthetic thickeners (HEC, HPMC and acrylics).

### 1. PRODUCT IDENTIFICATION

Chemical description	: hydroxypropylated guar gum
INCI name	: Hydroxypropyl Guar
CAS number	: 39421-75-5
EINECS/ELINCS number	: not applicable: polymer

### 2. GENERAL CHARACTERISTICS

Appearance at 20°C	: powder
Viscosity (1% solution, Brookfield RVT @ 20°C, 20 rpm)	: 3000 – 5000 cps
Moisture	: 12 % max.
pH (1 % solution)	: 5 - 7
Total Viable Count, CFU/g	: max 500 CFU/g

### 3. SOLUBILITY

**CESMETIC 4W** is soluble in water at room temperature; is soluble in aqueous methanol or ethanol solutions up to 30% and insoluble in paraffin oil, petroleum ether, chloroform and ethyl ether.

### 4. USE and APPLICATIONS

**Use:** being a self-hydrating grade **CESMETIC 4W** is easily hydrated in water. We suggest to add guar powder to water under vigorous stirring to avoid lumps formation. Stirring should be continued for 30 minutes in order to ensure complete swelling of the polymer. Moderate heating can shorten hydration time.

**Applications:** **CESMETIC 4W** is recommended as thickener in liquid soaps to improve foam stability. After rinsing, the polymer leaves a silky touch on skin. **CESMETIC 4W** can also be used as O/W emulsion stabilizer (suggested dosage: 0.3 -0.5%).

### 5. PACKAGING

25 Kg net weight paper bags

### 8. STORAGE and HANDLING

**CESMETIC 4W** should be stored cool and dry in unopened container.

SHELF LIFE: 18 months

These products must be stored, handled and used following hygienic and safety rules of good industrial use and in compliance with effective law disposal. All information and data given herein are based on our present experience but are presented without warranty or responsibility of any kind. This document substitutes every previous edition. November 2012



## TECHNICAL INFORMATION

### WARRANTY - SAFETY DATA SHEET

This information is given in good faith and to the best of our knowledge. Every user of our products is responsible as regards observation of all legal regulations including patent laws. Detailed information on handling, and eventual precautions to be observed in the use of the product can be found in our relevant Health and Safety Information Sheet.

