

## Guar Gum (Cationic)

### Specification Sheet

**Description:** Cationic guar gum is a modified, naturally derived (from the seeds of the guar plant *Cyamopsis tetragonolobus*) quaternary, high-molecular weight sugar polymer (polysaccharide) combining both thickening and conditioning effects. Yellowish powder, faint characteristic odor. Soluble in water.

**CAS:** 65497-29-2

**INCI Name:** Guar hydroxypropyltrimonium chloride

**Benefits:**

- Effective non-gelling thickener and viscosity enhancer
- Can boost foam when together with surfactants
- Has additional conditioning effect due to the quaternary polymer structure as compared to regular guar gum

**Use:** Dissolve in water and stir thoroughly. Guar gum has a high pH >9 in order to thicken the solution that contains the guar gum the pH has to be <7. Add a tiny amount of citric acid or concentrated lemon juice to reach a lower pH and the solution is thickening. Stir well, typical use level is 0.2-2%. For external use only.

**Applications:** Shampoos, conditioners, lotions, creams, body washes, shower gels.

**Country of Origin:** USA

**Raw material source:** Guar beans (*Cyamopsis tetragonolobus*)

**Manufacture:** Hydroxypropyl guar gum is produced by the thermo-mechanical treatment of the seeds of guar beans to obtain galactomannan which is then reacted with an alkylene oxide (propylene) in the presence of an alkaline catalyst (such as sodium hydroxide).

**Animal Testing:** Not animal tested

**GMO:** GMO free but not certified

**Vegan:** Does not contain animal-derived components