

State of the Art Ingredients • Fast Friendly Service

Guar			
DEFINITION	A self-hydrating quaternized guar that offers efficient thickening, and cationic conditioning without buildup.		
FULL INCI	Guar Hydroxypropyltrimonium Chloride		
DESCRIPTION	In recent years, quaternized Guar has become a popular conditioner for both hair and skin cleansing products as well as emulsions and other personal care products. Quaternized Guar provides unrivalled conditioning without unpleasant polymer buildup after repeated use. It is a unique conditioner derived from guar, a natural hydrocolloid. The word Guar, derived from sanskrit, means food for cows. Guar gum belongs to the legume family and is primarily cultivated on the Indian subcontinent. Small amonts are also grown in Texas and Oklahoma. The gum is dervied from the endosperm of the guar bean, which contains protein, fiber, and moisture. Through multistage grinding and sifting, the endosperm is seperated out and then ground to a fine powder called guaran. Guar gum and its derivatives offer several advantages for personal care formulators: It is natural and derived from a renewable source; It conditions without causing polymer buildup in hair care products; It is biodegradable and nontoxic;		
	 It is economical compared to other cellulosic products, and It is the only one of the three main polysaccharides (the others are starch and cellulose) that hydrate in water without chemical or physical modification. 		
	Quaternized Polymers are used in shampoos and conditioners to facilitate combability. They are used in skin care to improve skin feel,		
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rubout, moisture content, and product aesthetics. The positively charged (cationic) molecule bonds with the negatively charged (anionic) skin and hair to form a polymeric film. They also make hair and skin alike feel softer and smoother to the touch. It is also known to increase the substantivity of silicone fluids onto hair and skin fibers.

SPECIFICATIONS	Appearance: Storage: Shelf Life: Solubility: Polarity:	Beige colored powder. Tightly sealed, protected from air and moisture.Store in a cool dry place. Keep container tightly sealed. 2 years when properly stored and handled Water soluble Cationic
USAGE	 add to wate 0.2-1% GuarTHIX i a very high 2) it depoly Personally, found that p percentage emulsion th GuarTHIX s moderate a minutes the product specificatio SOC with ex water phas GuarTHIX. 	er phase is normally stable between pH 3-9. It is only stable at pH (10-12) in the absence of air. At a very low pH (1- merizes in a short period of time (translation: pilling). I would recommend using it at pH 5-9, as I have pilling can occur at a pH higher than 2 if larger is of Guar are incorporated (i.e. using .5-1% in an nat contains a low pH milk in place of water). should be added to room temperature water with agitation. The powder disperses readily, and after 30- it is completely hydrated. The other components of are then added and the formula is adjusted to n. Once hydrated, GuarTHIX can be heated to at least cellent tolerance, but be sure you have an adequate e in the formulation, so as not to "scorch" the hydrated