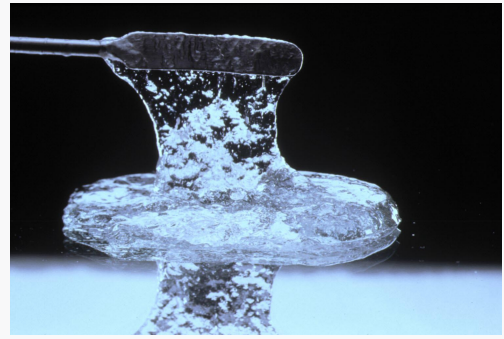




# Carbomer



## *Creating Gels Just Got Easier!*

### **Pre-Mix Carbomer Powder with Water for Best Results**

**INCI: Carbomer**

#### **Type 940**

Chemical name: Carboxyvinyl Polymer; average equivalent weight: ca.76; Bulk density: 0.20-0.23 g/cm<sup>3</sup>; pH (0.5% water dispersion): 2.7-3.5

Carbomer is a fine white acrylic powder used in hair gels, and other gels, lotions, and creams.

It is suitable for formulating sparkling and clear gels as well as stabilizing emulsions. The **typical use level is 0.1-0.5%** depending on the type of formulation and final desired viscosity.

It is a cost effective thickener and is pH sensitive. Carbomer must be thoroughly mixed and hydrated. **Increasing the pH to 7.0, gives a gel structure.** Neutralization can be carried out with inorganic bases (such as NaOH, KOH, NH<sub>4</sub>OH) or with organic amines (such as TEA, AMP, AMPD). To neutralize 1 g of Carbomer to pH 7, ca. 0.01 equivalent of base (or water) are required (e.g. 0.4g of NaOH, 0.9g of AMP, 1.5g of TEA). It is advisable to add strong bases previously diluted into water at a concentration not higher than 10%.