

How to Manufacture Gums and Stabilizers - Food Industry Ingredients (Hydrocolloids)

Description:

Gums are plant flours (like starch or arrowroot) that make foods & other products thick. Gums are used in foods for many reasons besides being used as a thickener. Gums are important ingredients in producing food emulsifiers, food additives, food thickeners & other gum products. The main reason for adding a gum or hydrocolloid to a food product is to improve its overall quality. India is the largest producer of gums, especially guar gum products. Similarly, stabilizers are an indispensable substance in food items when added to the food items, they smoothens uniform nature and hold the flavouring compounds in dispersion. Gum technology stabilizers are carefully controlled blends of various food ingredients. Most processed foods need some sort of stabilization at some point during production, transportation, storage and serving. The science and technology of hydrocolloids used in food and related systems has seen many new developments and advances over recent years. The breadth and depth of knowledge of gums and stabilizers has increased tremendously over the last two decades, with researchers in industry and academia collaborating to accelerate the growth. Gums as food constituents or as food additives can influence processing conditions in the following ways; retention of water, reduction of evaporation rates, alteration of freezing rates, modification of ice crystal formation and participation in chemical reactions.

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Keywords: Food Industry Ingredients, Manufacture Gums and Stabilizers, Gum, Frozen, Viscosity, Hydrophilic, Gelation, Textures, Rheological, Enhancing, Emulsification, Stabilization, Hydrocolloids, Emulsions, Crystallization, Crystal, Hydrocolloids, Flavor, Arabic, Spray, Dried, Flavors, Slab, Microencapsulation, Coacervation, Alginate, Encapsulation, Protective, Synergistic, Hydrocolloids, Rheology, Pseudoplastic, Shear, Dilatancy, Thixotropic, Rheopexy, Liquids, Viscometers, Rotational, Rheological

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