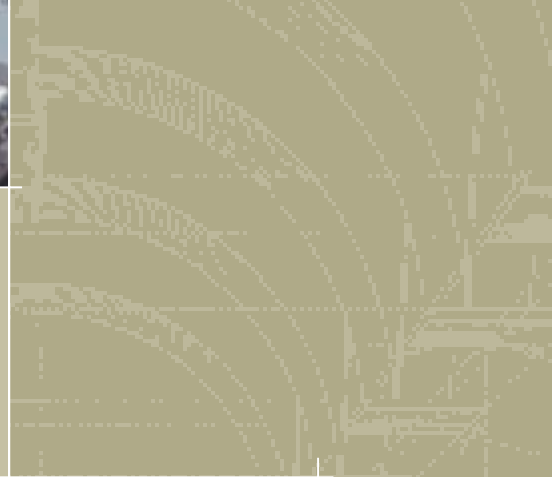


Watson ... specialized facilities, preparation & processing equipment, raw material expertise and analytical instrumentation.



WATSON INC.

experience | technology | service



WATSON INC.

Profile

Vitamins, Minerals, Amino Acids,
Fine Chemicals, Botanicals



WATSON

Watson is one of the highest quality suppliers of products and services geared to enhancing human health and nutrition around the world. We are a leader in developing custom nutrient blends for the food and pharmaceutical industries. Expertise in microencapsulation, agglomeration, micronizing and spray drying allow us to develop unique formulations using Watson manufactured value-added ingredients.

OUR FACILITIES

Watson is a third generation family-run business. Founded in 1939, our headquarters is located in West Haven, Connecticut. Our modern 95,000 sq. ft. facility houses our R&D, manufacturing and analytical departments. We have another 80,000 sq. ft. manufacturing and distribution center in Taylorville, Illinois. We also have distribution warehouses in Connecticut and Southern California as well as several international locations.

QUALITY CONTROL

High quality control standards are maintained by Watson's state-of-the-art analytical laboratory. Mineral and trace elemental analyses are supported by two ICP emission

spectrometers and an ICP mass spectrometer. Vitamin, supplement and pharmacological actives analyses are supported by eight HPLC systems, two UV spectrophotometers, a dual beam IR spectrometer and a GC unit. A wide variety of specialized instrumentation, such as specific ion electrometers, particle size classification, programmable viscometry, auto-titration, immunoassay and microscopy, are extensively employed in the quality control process.

RESEARCH AND DEVELOPMENT

At Watson, we maintain four in-house research and development laboratories and pilot lab facilities for product development. The technical support group consists of a staff with either a MS or PhD in chemistry or food science, as well as fundamental training and applied expertise in human nutrition, protein chemistry, carbohydrate chemistry, surfactant and emulsion technology, enzymology, microbiology and many application specialties such as low net carbs, low calorie, low fat and meal replacement products. The group is nationally recognized as a leader in food nutrimentation and fortification.

Capabilities

PREMIXES

Watson provides ingredients and custom blends to many industries, including dietary foods and supplements, infant formula, sports nutrition, meal replacement, beverages, bakery and pharmaceutical. Since no one formula can meet all of our customers' requirements, each blend is custom formulated, taking into consideration its intended use, sensory evaluation, stability, and cost. Each active ingredient is tested in every blend before release. These nutrient blends include vitamins, minerals, amino acids, nutraceuticals, and Watson Specialty Ingredients.

SPECIALITY INGREDIENTS

Our expertise in Fluid Bed Technology has allowed us to become a leader in supplying microencapsulated ingredients around the world. We can coat materials to mask flavor, enhance stability, or provide moisture barrier protection. We have a long list of microencapsulated nutritional products, or could custom microencapsulate your product.

Also, our eight production fluidized beds run around the clock to provide instantized and agglomerated products. Instantizing can make powders more dispersible. Agglomerated products can improve compressibility, content uniformity, and reduce friability, as well as improve disintegration and dissolution.

Our specialty ingredients also include vitamin oil blends and spray dried products. Our expertise in the processing of Beta Carotene is unsurpassed.

CORE COMPETENCIES

- Vitamin/Mineral Premixes
- Hot Melt Granulation
- Instantizing
- Wet/Dry Blending
- Drum-to-Hopper Blends
- Agglomeration
- Micro-Encapsulation
- Trituration
- High Shear Granulation
- Micronizing
- Spray Drying
- Toll Manufacturing



Facilities Feature:

- Hepa Filtration
- Humidity/Temperature Controlled Rooms
- Pharmaceutical Grade Water Filtration System
- Pilot Labs

Equipment List Includes:

- Micronizing Bead Mills
- Cryogenic Fitzmills
- Oscillating Granulators
- Sifters
- Reactors
- Rotary Dryers
- Belt Dryers
- Double Drum Dryers
- Mix Tanks
- Jacketed Liquefiers
- Homogenizers
- Top Spray Coaters
- Wurster Coaters
- Accela Cota Film Coating Machine
- Blenders from 1 kg to 5,000 kg

Evaluation Equipment Includes:

- Tablet Disintegrators
- Hardness Testers
- Tablet Presses
- Mesh Size Analyzers
- Bulk Density Testers
- Coating Integrity Evaluators

Analytical Instrumentation Includes:

HPLC, GPC, UV-VIS, ICP-EM, ICP-MS, AA, ELISA and Microwave Digestion & Drying.

“At Watson, we have the raw material expertise, a wide spectrum of processing technologies, as well as advanced analytical instrumentation in a modern facility to manufacture one of the widest ranges of specialty ingredients available for the food, dietary supplement, nutritional and pharmaceutical markets.”



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Watson Line of Products

Vitamin/Mineral Fortification

Customized Premixes

- Vitamins/Minerals
- Antioxidant Nutrients
- Amino Acids
- Nutraceuticals
- Mill Enrichment
- Dietary Fiber
- Protein Blends

Custom Micro-Encapsulations

- Flavor/Odor masking
- Stabilization
- Controlled Release
- Improved Compression
- Free Flowing
- Prevent Moisture Pick-up

Functional Ingredients

- Carbohydrate Reduction
- Fat Replacement
- Stabilizers
- Suspension Aids
- Bulking Agents
- Texturizing Agents
- Fat Replacers

Films

- Edible Films
- Selective Barriers
- Delivery Systems
- Edible Glitter

Bakery Ingredients

- Low Carb Bases/Blends
- Softeners
- Shelf Life Extenders
- Oxidizing Systems
- Enzymes
- Dough Improvers
- Fat Replacers