



Dispersion Processing Services

HIGHLIGHTS

- BEAD MILLING
- HIGH PRESSURE PROCESSING
- BALL MILLING
- HIGH SHEAR MIXING
- DISPERSION CHARACTERIZATION
- TOLL PROCESSING

AVEKA DISPERSION PROCESSING SERVICES

AVEKA has the Research and Development infrastructure and production capabilities to formulate, design and produce a dispersion to meet your market needs.

Methods

AVEKA has three primary methods of generating dispersion:

- Bead milling
- High-pressure processing
- High-shear mixing

Each of these different processes has specific strengths and can be employed to make a stable, ultra-fine dispersion of most any material, including pigments, cosmetics, ceramics, pharmaceuticals and polymers.

R&D, Pilot and Manufacturing

AVEKA offers:

- Full team of R&D Engineers and Dispersion Specialists
- Formulation and Process Development
- Dedicated analytical laboratory
- Line of versatile processing equipment
- Contract manufacturing committed to highest quality and customer satisfaction.

AVEKA is your dispersion solution provider from R&D to production quantities in an ISO registered facility.

AVEKA Group

*AVEKA, Inc.
AVEKA Manufacturing, Inc.
Cresco Food Technologies, LLC
AVEKA Nutra Processing, LLC
AVEKA CCE Technologies, LLC*

Dispersion Processing Services

Primary Methods of Generating Perfect Dispersions

FORMULATION EXPERTISE

Enhancing your dispersion through:

- Selection of correct surfactants and dispersants
- Defining proper processing method
- Optimizing processing parameters
- Elimination of product contamination through special processing zone materials

UNDERSTAND YOUR DISPERSION

Full range of analytical tools to measure and understand critical behavior of dispersions:

- Particle size measurement
- Particle charge through zeta-potential
- Surface area
- Rheology
- Solid content

WATER-BASED OR SOLVENT

Many dispersions are water-based, but AVEKA also has the capability to prepare solvent-based dispersions in a completely enclosed, explosion-proof processing area.



Dispersion Processing Equipment

- Buhler K8 – conical bead mill
- Buhler Advantis high-energy bead mill
- Buhler COSMO high-shear bead mill
- Buhler PML-HV high-capacity disc mill with multiple grind chambers
- Buhler K60 pilot & production mill
- Ball Mills (dry and wet)
- Hockmeyer Immersion Bead Mill
- Microfluidizer M110Y and M210EH (high-pressure processing)
- Dispermat cowles disperser
- Silverson – rotor stator mixer
- Ross high torque mixer
- Inca high-speed disperser
- Buhler twin-screw extruder

Applications

- Inkjet inks
- Specialty coatings
- Emulsions
- Agrochemicals
- Food ingredients
- Cosmetics
- Nutraceuticals
- High-tech ceramics
- Fuel cell and battery applications
- Electronics components and much more