



innovative chemical technologies, inc.

*A Specialty Chemicals Manufacturer*



# Company Profile

# About ICT

Innovative Chemical Technologies, Inc. (ICT) develops and manufactures a broad range of surface modification technologies, primarily specialty surfactants and polymers. Research and development, manufacturing, and business operations are located northwest of Atlanta in Cartersville, Georgia.

ICT is a rapidly growing, vibrant company that has developed an extensive product line. ICT has also developed the resources to rapidly respond to customer needs with new or existing products and technology. Innovative Chemical Technologies is dedicated to quality products and excellent customer service.

ICT's current facilities include two plant sites (10 acres and 5.5 acres), 10,000 and 1200 square foot R&D laboratory facilities, and 50,000 and 70,000 square foot manufacturing plants equipped with 22 reactors and many hot and cold blending/dispersing/standardization vessels as well as numerous storage and auxiliary tanks.



ICT specializes in the development and manufacture of partially fluorinated surfactants and polymers that are used as high performance wetting agents and as oil, water, soil, and stain repellents. ICT also produces and has expertise in specialty polymers of many types, specialty surfactants and many sulfur products based on carbon disulfide. Specialty products from ICT are used by many different industries in more than 50 countries on 6 continents.

# Facilities

## Equipment Includes:

- ◆ Full laboratory quality assurance and process control analysis facilities
- ◆ Full laboratory scale to pilot plant development facilities
- ◆ Over 100,000 gallons of bulk storage some with heating and cooling systems
- ◆ Over 50,000 gallons carbon steel bulk storage
- ◆ 7700 gallon jacketed 316 stainless steel reactors with internal coils, distillation column with overhead condenser and receiver tanks
- ◆ 5000 gallon 316 stainless steel reactor with condenser and receiver
- ◆ 7700, 5700, and 3500 gallon jacketed 316 stainless steel reactor with internal coils
- ◆ 3000 gallon jacketed 316 stainless steel reactor with overhead condenser and receiver
- ◆ 5500 gallon 316 stainless steel reactor with internal coils
- ◆ 3000 and 4000 gallon jacketed glass lined reactors
- ◆ 3000 gallon jacketed 316 stainless steel reactor
- ◆ 2 x 3000 gallon jacketed 316 stainless steel reactors
- ◆ 3800 and 1200 gallon 304 stainless steel reactors
- ◆ 1750 glass lined Pfaudler reactors
- ◆ 400 gallon glass lined reactor
- ◆ 350 and 30 gallon 316 stainless steel reactor with overhead condensers and receivers
- ◆ 300 gallon glass lined reactor
- ◆ 80 gallon 316 stainless steel reactor with condenser and a receiver
- ◆ 150 gallon Hastelloy C reactor with hot oil system
- ◆ 500 gallon Hastelloy C reactor with an overhead condenser and receiver
- ◆ Several mixing vessels ranging from 30 gallons to 8,400 gallons (plastic, fiberglass, 304 and 316 stainless steel)
- ◆ 300 gallon 304 and 316 stainless steel jacketed mix tanks
- ◆ 1000 gallon high shear mixing vessels for dispersions and high viscosity fluids
- ◆ Inconel Sparkler filter
- ◆ Hastelloy C plate filter
- ◆ Medium pressure homogenizer
- ◆ High pressure pilot homogenizer
- ◆ Vacuum pumps
- ◆ 600 and 240 cubic feet 316 stainless steel jacketed rotary vacuum dryer including vacuum pumps, solids handling and ancillary equipment
- ◆ Tolhurst Batchmaster 48" x 24" stainless steel basket centrifuge
- ◆ 2 x Andritz-Bird 48" x 30" 326 stainless steel basket centrifuges
- ◆ Hosakowa size 2 stainless steel air swept hammer mill pneumatic dryer and baghouse system
- ◆ Wyssmont Turbo Try dryer, 304 stainless steel, model 0-26
- ◆ Jet Mills, 8" stainless steel air handling and collection equipment
- ◆ Hockmeyer 25 HP cowles type mixer
- ◆ Strong jacketed stainless steel ribbon blender 60 cubic feet
- ◆ Silverson 60 OL high shear emulsification pump
- ◆ 100 and 200 horse power steam boilers (RII)
- ◆ 2 x 150 horse power boilers (125 psi steam) (ICT)
- ◆ McQuay 270 ton chiller and 140 ton low temperature chiller
- ◆ 200, 260 and 720 ton cooling towers
- ◆ 20 and 40 ton chiller
- ◆ Nitrogen Generation System
- ◆ Allen Bradley based process automation systems
- ◆ Effluent pretreatment and storage facilities
- ◆ Fabrication and maintenance shops



## Capabilities Include:

- ◆ Esterification
- ◆ Amidation
- ◆ Alkylation
- ◆ Quaternization
- ◆ Etherification
- ◆ Phosphation
- ◆ Sulfation
- ◆ Sulfonation
- ◆ Phosphonation
- ◆ Ethoxylation
- ◆ Urethanes, Urethane polymers and prepolymers
- ◆ Free radical polymerization (solvent, aqueous solution and emulsion, bulk)
- ◆ Condensation polymerization
- ◆ Distillation
- ◆ Emulsification
- ◆ Oxidation
- ◆ Simple and complex blending
- ◆ Neutralization
- ◆ Sulfur chemistries based on carbon disulfide

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