

# ISLECHEM

## Contract Manufacturing

IsleChem, LLC, continues to expand its manufacturing business by serving customers on a contract basis for exclusive manufacture of products and by expanding its own portfolio of chemicals offered for sale. We maintain a complete infrastructure of staff and equipment to handle all aspects of chemical manufacture. This is a targeted area of growth for the company.

IsleChem has considerable reactor capacity, in volume ranging to 500 gallon vessels. In addition to standard materials of construction, we have available complete reaction systems made of monel, hastelloy and nickel, designed to accommodate reactions involving aggressive chemicals. Reactor systems are linked to common auxiliary systems that supply hot oil heating to 260°C, cooling to -20°C and vacuum to less than 2mm. An on-site permitted drumming station is also available for product packaging and labeling.

IsleChem also features a large array of equipment and expertise for the purification of products. Product separation via distillation is truly an IsleChem manufacturing competency. We have glass, stainless steel, carbon steel and nickel systems with over 30 trays of distillation capacity. We have Zwag, Nutsche and various bag and cartridge filters for solids clean-up, as well as numerous wipe film and falling film evaporators.

IsleChem has in-depth technical expertise in the following areas:

Radical and ionic chlorination	Sodium/lithium chemicals
Hydrofluorination	Alkylation
Hydrochlorination	Cyanation
Chlorodesulfonation	Halogen exchange
Mercaptans	Formylation
Nano-materials	

### ***Contract Manufacturing***

IsleChem will manufacture kilogram to multiple ton quantities of specific compounds to satisfy Client needs. Frequently the purpose of contract manufacturing is to provide sufficient quantity of a chemical for test marketing or toxicity testing. Normally the manufacture involves multi-step synthesis of complex



molecules. Our comprehensive array of analytical equipment and expertise assures that a complete profile of our customer's products is known. Whether it's pre-commercial quantities of material for new product introduction or confidential manufacture of proprietary chemicals, IsleChem has the people and experience to deliver your products on time, every time.

### ***IsleChem Products***

Currently IsleChem offers a line of alkyl acid phosphates for sale. Current offerings include methyl acid phosphate, butyl acid phosphate, phenyl acid phosphate, amyl acid phosphate, ethyl acid phosphate, 2-ethylhexyl acid phosphate, and dimethyl acid pyrophosphate. These products are used in additive packages for oxidation inhibitors, anti-wear agents, corrosion inhibitors, catalysts and coatings. These materials, as well as acid phosphates from other alcohols, can be sourced by contacting the IsleChem sales and marketing team at the numbers listed below.

IsleChem has the infrastructure necessary to manufacture chemicals in total compliance with all regulatory requirements. We are committed to providing our clients with worry-free chemical production. We provide on-site technical service and support for all products that we manufacture. We want you to use our resources as an extension of your business team. Give us a call today.



In addition to Contract Manufacturing, IsleChem offers:

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| <b>Contract R&amp;D</b>                         | <b>Analytical Services</b>    |
| <b>Process Scale Up</b>                         | <b>Technical Service</b>      |
| <b>Materials Testing</b>                        | <b>Environmental Services</b> |
| <b>Analysis of Hazardous Building Materials</b> |                               |

## **ISLECHEM**

**2801 Long Road  
Grand Island, NY 14072  
800/699-8606  
[www.islechem.com](http://www.islechem.com)**